

chain nodes :

7 14

ring nodes :

1 2 3 4 5 6 9 10 11 12 13

chain bonds :

1-7 4-9 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13

exact/norm bonds :

1-7 4-9 9-10 9-13 12-14

exact bonds :

10-11 11-12 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 9 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom

12:Atom 13:Atom 14:Atom

Generic attributes :

14:

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : 2 or more

Element Count :

Node 14: Limited

C,C3

N,N2

S,S0

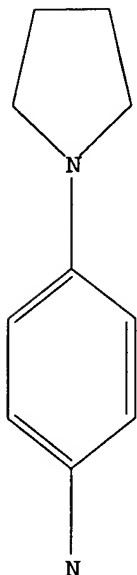
O,O0

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:55:21 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 85 TO ITERATE

100.0% PROCESSED 85 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 1147 TO 2253
 PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 12:55:24 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1714 TO ITERATE

100.0% PROCESSED 1714 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L5 0 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	167.82	168.03

FILE 'CAPLUS' ENTERED AT 12:56:22 ON 16 FEB 2006
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FILE COVERS 1907 - 16 Feb 2006 VOL 144 ISS 8
FILE LAST UPDATED: 15 Feb 2006 (20060215/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s us20040077852/pn
L6 1 US20040077852/PN
(US2004077852/PN)

=> d

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:17396 CAPLUS
 DN 140:81854
 TI Hair dyeing compositions containing pyrrolidinyl-p-phenylenediamine
 derivatives
 IN Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
 PA L'Oreal, Fr.
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1378230	A1	20040107	EP 2003-291616	20030701
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841780	A1	20040109	FR 2002-8514	20020705
FR 2841780	B1	20040910		
JP 2004035559	A2	20040205	JP 2003-271500	20030707
US 2004077852	A1	20040422	US 2003-612986	20030707

<--
 PRAI FR 2002-8514 A 20020705
 US 2002-408900P P 20020909
 OS MARPAT 140:81854
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.63	171.66

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005.  A new display format, IDERL, is now
* available and contains the CA role and document type information.
*
*****
```

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

=> s e1-e48

1 108-45-2/BI
(108-45-2/RN)
1 123-30-8/BI
(123-30-8/RN)
1 123-75-1/BI
(123-75-1/RN)
1 16867-03-1/BI
(16867-03-1/RN)
1 2380-86-1/BI
(2380-86-1/RN)
1 2835-95-2/BI
(2835-95-2/RN)

1 288-32-4/BI
(288-32-4/RN)
1 30569-52-9/BI
(30569-52-9/RN)
1 350-46-9/BI
(350-46-9/RN)
1 361346-55-6/BI
(361346-55-6/RN)
1 40499-83-0/BI
(40499-83-0/RN)
1 5036-48-6/BI
(5036-48-6/RN)
1 591-27-5/BI
(591-27-5/RN)
1 607354-89-2/BI
(607354-89-2/RN)
1 612-76-0/BI
(612-76-0/RN)
1 640725-40-2/BI
(640725-40-2/RN)
1 640725-42-4/BI
(640725-42-4/RN)
1 640725-43-5/BI
(640725-43-5/RN)
1 640725-44-6/BI
(640725-44-6/RN)
1 640725-45-7/BI
(640725-45-7/RN)
1 640725-46-8/BI
(640725-46-8/RN)
1 640725-47-9/BI
(640725-47-9/RN)
1 640725-48-0/BI
(640725-48-0/RN)
1 640725-49-1/BI
(640725-49-1/RN)
1 640725-50-4/BI
(640725-50-4/RN)
1 640725-51-5/BI
(640725-51-5/RN)
1 640725-52-6/BI
(640725-52-6/RN)
1 640725-53-7/BI
(640725-53-7/RN)
1 640725-54-8/BI
(640725-54-8/RN)
1 640725-55-9/BI
(640725-55-9/RN)
1 640725-56-0/BI
(640725-56-0/RN)
1 640725-57-1/BI
(640725-57-1/RN)
1 640725-58-2/BI
(640725-58-2/RN)
1 640725-59-3/BI
(640725-59-3/RN)
1 640725-60-6/BI
(640725-60-6/RN)
1 640725-61-7/BI
(640725-61-7/RN)

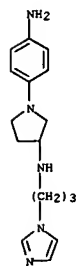
1 640725-62-8/BI
 (640725-62-8/RN)
 1 640725-63-9/BI
 (640725-63-9/RN)
 1 640725-64-0/BI
 (640725-64-0/RN)
 1 640725-65-1/BI
 (640725-65-1/RN)
 1 640725-66-2/BI
 (640725-66-2/RN)
 1 640725-67-3/BI
 (640725-67-3/RN)
 1 640725-68-4/BI
 (640725-68-4/RN)
 1 66422-95-5/BI
 (66422-95-5/RN)
 1 7722-84-1/BI
 (7722-84-1/RN)
 1 80419-48-3/BI
 (80419-48-3/RN)
 1 9035-73-8/BI
 (9035-73-8/RN)
 1 95-55-6/BI
 (95-55-6/RN)

L7

48 (108-45-2/BI OR 123-30-8/BI OR 123-75-1/BI OR 16867-03-1/BI OR
 2380-86-1/BI OR 2835-95-2/BI OR 288-32-4/BI OR 30569-52-9/BI OR
 350-46-9/BI OR 361346-55-6/BI OR 40499-83-0/BI OR 5036-48-6/BI
 OR 591-27-5/BI OR 607354-89-2/BI OR 612-76-0/BI OR 640725-40-2/BI
 OR 640725-42-4/BI OR 640725-43-5/BI OR 640725-44-6/BI OR 640725-
 45-7/BI OR 640725-46-8/BI OR 640725-47-9/BI OR 640725-48-0/BI OR
 640725-49-1/BI OR 640725-50-4/BI OR 640725-51-5/BI OR 640725-52-6
 /BI OR 640725-53-7/BI OR 640725-54-8/BI OR 640725-55-9/BI OR
 640725-56-0/BI OR 640725-57-1/BI OR 640725-58-2/BI OR 640725-59-3
 /BI OR 640725-60-6/BI OR 640725-61-7/BI OR 640725-62-8/BI OR
 640725-63-9/BI OR 640725-64-0/BI OR 640725-65-1/BI OR 640725-66-2
 /BI OR 640725-67-3/BI OR 640725-68-4/BI OR 66422-95-5/BI OR 7722-
 84-1/BI OR 80419-48-3/BI OR 9035-73-8/BI OR 95-55-6/BI)

=> d

L7 ANSWER 1 OF 48 REGISTRY COPYRIGHT 2006 ACS on STN
RN 640725-68-4 REGISTRY
ED Entered STN: 23 Jan 2004
CN 1H-Imidazole-1-propanamine, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-,
monohydrochloride (9CI) (CA INDEX NAME)
MF C16 H23 N5 . Cl H
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (640725-50-4)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


```
=> fil reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                      ENTRY      SESSION
FULL ESTIMATED COST                2.34      174.00
```

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9
DICTIONARY FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d his

(FILE 'HOME' ENTERED AT 12:54:24 ON 16 FEB 2006).

FILE 'REGISTRY' ENTERED AT 12:54:31 ON 16 FEB 2006

```
L1      STRUCTURE UPLOADED
L2      0 S L1
L3      STRUCTURE UPLOADED
L4      0 S L1
L5      0 S L1 FULL
```

FILE 'CAPLUS' ENTERED AT 12:56:22 ON 16 FEB 2006

```
L6      1 S US20040077852/PN
        SELECT L6 1 RN
```

FILE 'REGISTRY' ENTERED AT 12:56:50 ON 16 FEB 2006

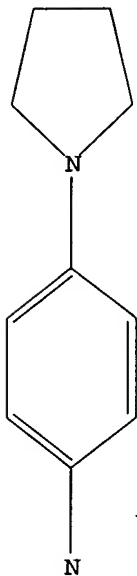
```
L7      48 S E1-E48
```

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006

=> d l3

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3

SAMPLE SEARCH INITIATED 12:57:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2680 TO ITERATE

74.6% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 50495 TO 56705

PROJECTED ANSWERS: 7358 TO 9846

L8 50 SEA SSS SAM L3

=> s l3 full

FULL SEARCH INITIATED 12:58:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 55930 TO ITERATE

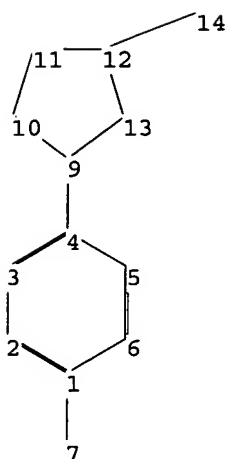
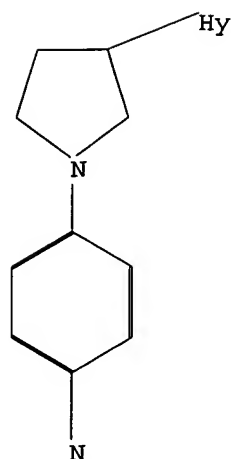
100.0% PROCESSED 55930 ITERATIONS
SEARCH TIME: 00.00.01

8658 ANSWERS

L9 8658 SEA SSS FUL L3

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



```

chain nodes :
7 14
ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
1-7 4-9 12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
exact/norm bonds :
1-7 4-9 9-10 9-13 12-14
exact bonds :
10-11 11-12 12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 9 :

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom
Generic attributes :
14:
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : 2 or more

```

```

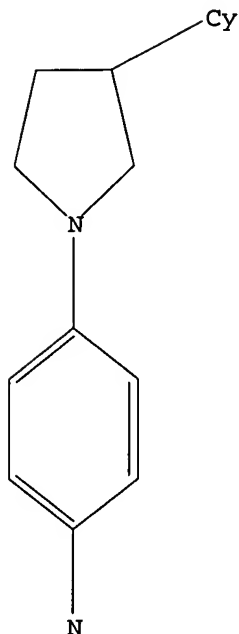
Element Count :
Node 14: Limited
C,C3
N,N2
S,S0
O,O0

```

L10 STRUCTURE UPLOADED

=> d

L10 HAS NO ANSWERS
L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 12:54:24 ON 16 FEB 2006)

FILE 'REGISTRY' ENTERED AT 12:54:31 ON 16 FEB 2006

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 0 S L1
L5 0 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:56:22 ON 16 FEB 2006

L6 1 S US20040077852/PN
SELECT L6 1 RN

FILE 'REGISTRY' ENTERED AT 12:56:50 ON 16 FEB 2006

L7 48 S E1-E48

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006

L8 50 S L3
L9 8658 S L3 FULL
L10 STRUCTURE UPLOADED

=> s l10 subset=l9 full

FULL SUBSET SEARCH INITIATED 12:59:56 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 8658 TO ITERATE

100.0% PROCESSED 8658 ITERATIONS

303 ANSWERS

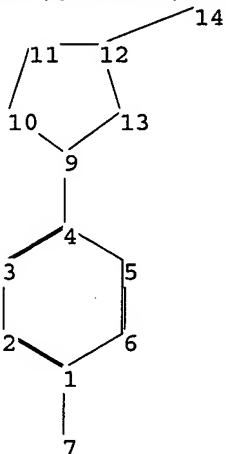
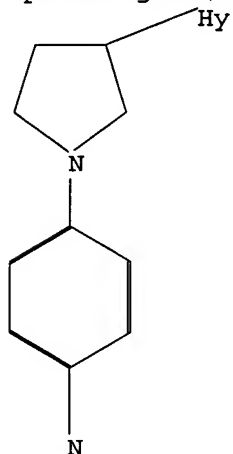
SEARCH TIME: 00.00.01

L11 303 SEA SUB=L9 SSS FUL L10

=> s l11 and caplus/lc
49740058 CAPLUS/LC

L12 205 L11 AND CAPLUS/LC

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



chain nodes :

7 14

ring nodes :

1 2 3 4 5 6 9 10 11 12 13

chain bonds :

1-7 4-9 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13

exact/norm bonds :

1-7 4-9 9-10 9-13 12-14

exact bonds :

10-11 11-12 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 9 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom

Generic attributes :

14:

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : 2 or more

Element Count :

Node 14: Limited

C,C3

N,N2

S,S0

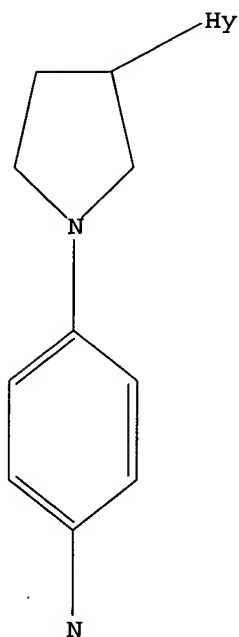
O,O0

L13 STRUCTURE UPLOADED

=> d

L13 HAS NO ANSWERS

L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l13 subset=l11 full

FULL SUBSET SEARCH INITIATED 13:00:33 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 303 TO ITERATE

100.0% PROCESSED 303 ITERATIONS

239 ANSWERS

SEARCH TIME: 00.00.01

L14 239 SEA SUB=L11 SSS FUL L13

=> s l14 and caplusl/c

NUMERIC VALUE NOT VALID 'CAPLUSL'

0 CAPLUSL/C

L15 0 L14 AND CAPLUSL/C

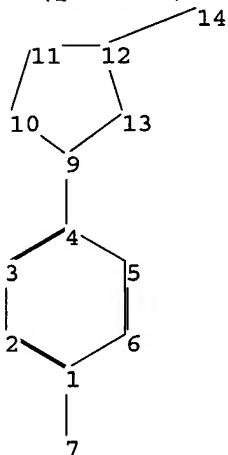
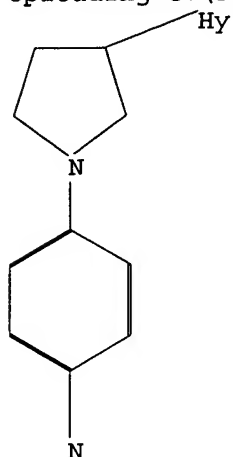
=> s l14 and caplus/lc

49740058 CAPLUS/LC

L16 149 L14 AND CAPLUS/LC

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



chain nodes :

7 14

ring nodes :

1 2 3 4 5 6 9 10 11 12 13

chain bonds :

1-7 4-9 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13

exact/norm bonds :

1-7 4-9 9-10 9-13 12-14

exact bonds :

10-11 11-12 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 9 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom

12:Atom 13:Atom 14:Atom

Generic attributes :

14:

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : 2 or more

Element Count :

Node 14: Limited

C,C3

N,N2

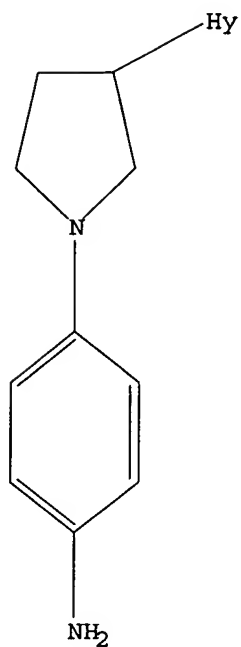
S,S0

O,O0

L17 STRUCTURE UPLOADED

=> d

L17 HAS NO ANSWERS
L17 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l17 subset=l14 full
FULL SUBSET SEARCH INITIATED 13:01:23 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 239 TO ITERATE
```

```
100.0% PROCESSED      239 ITERATIONS      67 ANSWERS
SEARCH TIME: 00.00.01
```

```
L18      67 SEA SUB=L14 SSS FUL L17
```

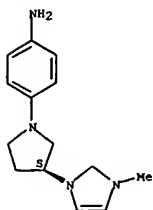
```
=> s l18 and caplus/lc
      49740058 CAPLUS/LC
L19      47 L18 AND CAPLUS/LC
```

```
=> s l18 not l19
L20      20 L18 NOT L19
```

```
=> d l20 1-20
```

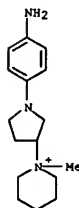

L20 ANSWER 1 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-70-4 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN 1H-Imidazolium, 1-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H19 N4
 CI COM
 SR CA

Absolute stereochemistry.



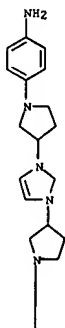
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 2 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-64-6 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN Piperidinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N3
 CI COM
 SR CA

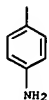


L20 ANSWER 3 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 785775-69-1 REGISTRY
 ED Entered STN: 22 Nov 2004
 CN 1H-Imidazolium, 1,3-bis[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C23 H29 N6
 CI COM
 SR CA

PAGE 1-A



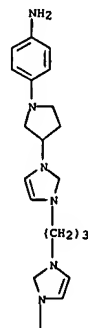
PAGE 2-A



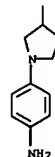
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 4 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 781613-57-8 REGISTRY
 ED Entered STN: 16 Nov 2004
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C29 H38 N8
 CI COM
 SR CA

PAGE 1-A

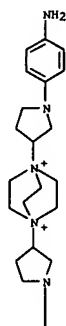


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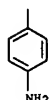


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 5 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 779324-26-4 REGISTRY
 ED Entered STN: 12 Nov 2004
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H38 N6
 CI COM
 SR CA

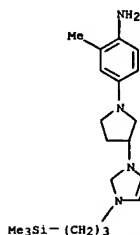


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PAGE 2-A

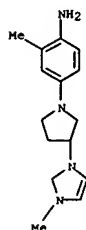
L20 ANSWER 6 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 778573-39-0 REGISTRY
 ED Entered STN: 11 Nov 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 MF C20 H33 N4 Si
 CI COM
 SR CA



Me₃Si-(CH₂)₃

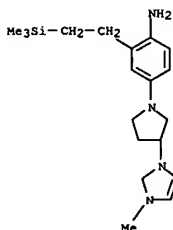
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 7 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 771473-53-1 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C15 H21 N4
 CI COM
 SR CA



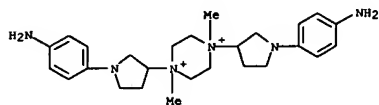
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 8 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 769921-12-2 REGISTRY
 ED Entered STN: 27 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C19 H31 N4 Si
 CI COM
 SR CA

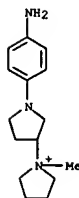


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 9 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 765898-84-8 REGISTRY
 ED Entered STN: 20 Oct 2004
 CN Piperazinium, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-1,4-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H40 N6
 CI COM
 SR CA

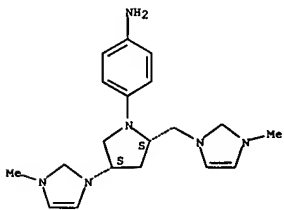


L20 ANSWER 10 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 765897-50-5 REGISTRY
 ED Entered STN: 20 Oct 2004
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H24 N3
 CI COM
 SR CA



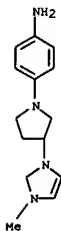
L20 ANSWER 11 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 764662-22-8 REGISTRY
 ED Entered STN: 18 Oct 2004
 CN 1H-Imidazolium, 1-[(3S,5S)-1-(4-aminophenyl)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C19 H26 N6
 CI COM
 SR CA

Absolute stereochemistry.



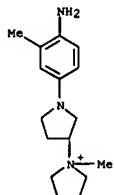
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 12 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 760171-36-6 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C14 H19 N4
 CI COM
 SR CA

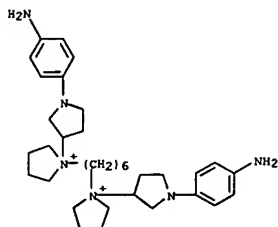


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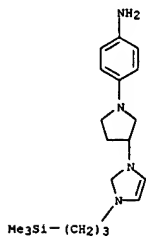
L20 ANSWER 13 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 753447-49-3 REGISTRY
 ED Entered STN: 29 Sep 2004
 CN 1,3'-Bispyrrolidinium, 1'-{(4-amino-3-methylphenyl)-1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N3
 CI COM
 SR CA



L20 ANSWER 14 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749207-32-7 REGISTRY
 ED Entered STN: 22 Sep 2004
 CN 1,3'-Bispyrrolidinium, 1,1''-(1,6-hexanediyl)bis[1'-{(4-aminophenyl)- (9CI) (CA INDEX NAME)
 MF C34 H54 N6
 CI COM
 SR CA

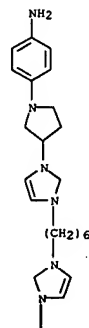


L20 ANSWER 15 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749205-99-0 REGISTRY
 ED Entered STN: 22 Sep 2004
 CN 1H-Imidazolium, 1-[1'-{(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 MF C19 H31 N4 Si
 CI COM
 SR CA



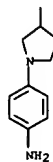
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 16 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748768-65-2 REGISTRY
 ED Entered STN: 21 Sep 2004
 CN 1H-Imidazolium, 1,1''-(1,6-hexanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C32 H44 N8
 CI COM
 SR CA



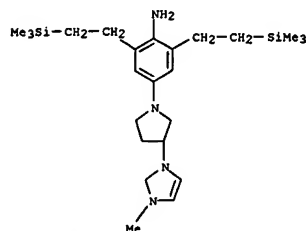
PAGE 1-A

PAGE 2-A



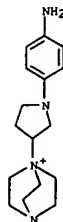
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 17 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 740082-89-7 REGISTRY
 ED Entered STN: 06 Sep 2004
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C24 H43 N4 Si2
 CI COM
 SR CA

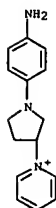


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

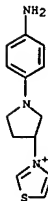
L20 ANSWER 18 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-08-8 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H25 N4
 CI COM
 SR CA



L20 ANSWER 19 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-04-4 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H19 N3
 CI COM
 SR CA



L20 ANSWER 20 OF 20 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-01-1 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Thiazolium, 3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 N3 S
 CI COM
 SR CA



=> d his

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FILE 'REGISTRY' ENTERED AT 12:54:31 ON 16 FEB 2006

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 0 S L1
L5 0 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:56:22 ON 16 FEB 2006

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 SELECT L6 1 RN

FILE 'REGISTRY' ENTERED AT 12:56:50 ON 16 FEB 2006

L7 48 S E1-E48

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006

L8 50 S L3
L9 8658 S L3 FULL
L10 STRUCTURE UPLOADED
L11 303 S L10 FULL SUB=L9
L12 205 S L11 AND CAPLUS/LC
L13 STRUCTURE UPLOADED
L14 239 S L13 FULL SUB=L11
L15 0 S L14 AND CAPLUSL/C
L16 149 S L14 AND CAPLUS/LC
L17 STRUCTURE UPLOADED
L18 67 S L17 FULL SUB=L14
L19 47 S L18 AND CAPLUS/LC

<http://www.cas.org/infopolicy.html>

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.46

520.60

FILE 'REGISTRY' ENTERED AT 13:03:41 ON 16 FEB 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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provided by InfoChem.

STRUCTURE FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9

DICTIONARY FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

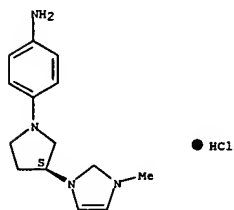
TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *

L19 ANSWER 1 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 852619-37-5 REGISTRY
ED Entered STN: 21 Jun 2005
CN 1R-Imidazolium, 1-[(1S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-,
chloride, monohydrochloride (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H19 N4 . Cl H . Cl
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (852803-70-4)

Absolute stereochemistry.



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE 'REGISTRY' ENTERED AT 12:54:31 ON 16 FEB 2006

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L2 0 S L1
L3 STRUCTURE UPLOADED
L4 0 S L1
L5 0 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:56:22 ON 16 FEB 2006

L6 1 S US20040077852/PN
 SELECT L6 1 RN

FILE 'REGISTRY' ENTERED AT 12:56:50 ON 16 FEB 2006

L7 48 S E1-E48

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006

L8 50 S L3
L9 8658 S L3 FULL
L10 STRUCTURE UPLOADED
L11 303 S L10 FULL SUB=L9
L12 205 S L11 AND CAPLUS/LC
L13 STRUCTURE UPLOADED
L14 239 S L13 FULL SUB=L11
L15 0 S L14 AND CAPLUSL/C
L16 149 S L14 AND CAPLUS/LC
L17 STRUCTURE UPLOADED
L18 67 S L17 FULL SUB=L14
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L20 20 S L18 NOT L19

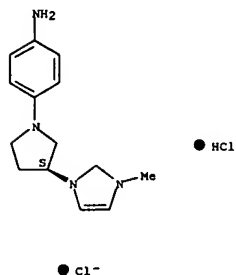
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FILE 'REGISTRY' ENTERED AT 13:03:41 ON 16 FEB 2006

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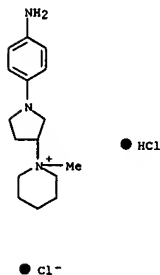
L19 ANSWER 1 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852619-37-5 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN 1H-Imidazolium, 1-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H19 N4 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 CRN (852803-70-4)

Absolute stereochemistry.



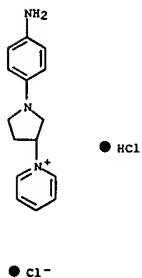
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 2 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852615-63-5 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN Piperidinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-1-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN [1-(4-Aminophenyl)pyrrolidin-3-yl](methyl)piperidinium chloride monohydrochloride
 MF C16 H26 N3 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 CRN (852803-64-6)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

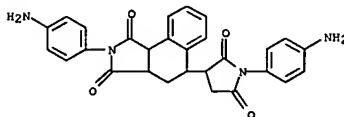
L19 ANSWER 3 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852615-62-4 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN [1-(4-Aminophenyl)pyrrolidin-3-yl]pyridinium chloride monohydrochloride
 MF C15 H18 N3 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 CRN (607355-04-4)



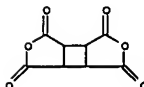
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 4 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 842125-88-6 REGISTRY
 ED Entered STN: 04 Mar 2005
 CN Cyclobuta[1,2-c:3,4-c']difurantetrone, tetrahydro-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-1H-benz[e]isoindole-1,3(2H)-dione (9CI) (CA INDEX NAME)
 MF (C28 H24 N4 O4 . C8 H4 O6)x
 CI FMS
 PCT Polyamic acid, Polyamic acid formed, Polyimide, Polyimide formed
 SR CA
 LC STN Files: CA, CAPLUS

CH 1
 CRN 842125-84-2
 CMF C28 H24 N4 O4

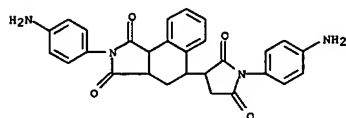


CH 2
 CRN 4415-87-6
 CMF C8 H4 O6



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 5 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 842125-84-2 REGISTRY
 ED Entered STN: 04 Mar 2005
 CN 1H-Benz[e]isoindole-1,3(2H)-dione,
 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-
 2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H24 N4 O4
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

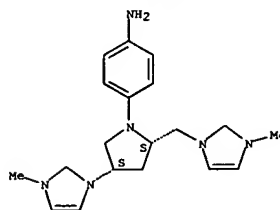
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 6 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 764662-23-9 REGISTRY
 ED Entered STN: 18 Oct 2004
 CN 1H-Imidazolium,
 1-[(3S,5S)-1-(4-aminophenyl)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl-, dimethanesulfonate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C19 H26 N6 . 2 C H3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CH 1

CRN 764662-22-8
 CMF C19 H26 N6

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CH 2

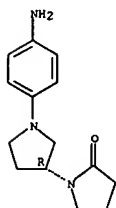
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 CMF C H3 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 7 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748183-31-5 REGISTRY
 ED Entered STN: 20 Sep 2004
 CN [1,3'-Bipyrrolidin]-2-one, 1'-(4-aminophenyl)-, (3'R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H19 N3 O
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

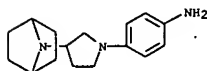
Absolute stereochemistry.



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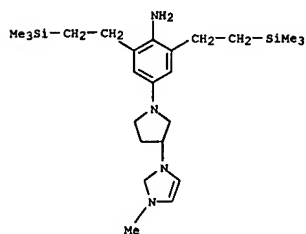
L19 ANSWER 8 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748183-30-4 REGISTRY
 ED Entered STN: 20 Sep 2004
 CN Benzenamine, 4-{3-(7-azabicyclo[2.2.1]hept-7-yl)-1-pyrrolidinyl}- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H23 N3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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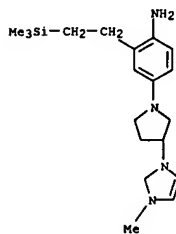
L19 ANSWER 9 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 701975-31-7 REGISTRY
 ED Entered STN: 01 Jul 2004
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)
 MF C24 H43 N4 Si2 . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (740082-89-7)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

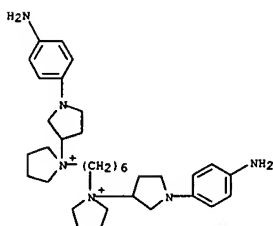
L19 ANSWER 10 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 701975-28-2 REGISTRY
 ED Entered STN: 01 Jul 2004
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)
 MF C19 H31 N4 Si . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 CRN (769921-12-2)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

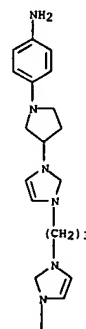
L19 ANSWER 11 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 667915-25-5 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN 1,3'-Bipyrrolidinium, 1,1'-(1,6-hexanediyl)bis[1'-(4-aminophenyl)-, dichloride (9CI) (CA INDEX NAME)
 MF C34 H54 N6 . 2 Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (749207-32-7)



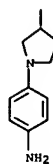
● 2 Cl⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 12 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 667915-11-9 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-(1-(4-aminophenyl)-3-pyrrolidinyl)-, dichloride (9CI) (CA INDEX NAME)
 MF C29 H38 N8 . 2 Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (781613-57-8)



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● 2 Cl⁻

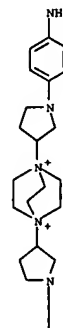
PAGE 2-A

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

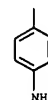
L19 ANSWER 12 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN (Continued)
 RN 667914-99-0 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)
 MF C26 H38 N6 . 2 Cl
 SR CA
 LC STN Files: CA, CAPLUS, USP2, USP2FULL
 CRN (779324-26-4)

L19 ANSWER 13 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 667914-99-0 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)
 MF C26 H38 N6 . 2 Cl
 SR CA
 LC STN Files: CA, CAPLUS, USP2, USP2FULL
 CRN (779324-26-4)

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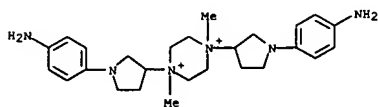
● 2 Cl⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 14 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 667914-97-8 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN Piperazinium, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-1,4-dimethyl-, dichloride (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1,4-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1,4-dimethylpiperazinium dichloride
 MF C26 H40 N6 . 2 Cl
 SR CA
 LC STN Files: CA, CAPLUS, USP2, USP2FULL
 CRN (765898-84-8)

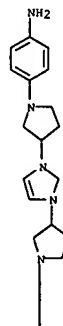
L19 ANSWER 15 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 667914-96-7 REGISTRY
 ED Entered STN: 26 Mar 2004
 CN 1H-Imidazolium, 1,3-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride (9CI)
 (CA INDEX NAME)
 OTHER NAMES:
 CN 1,3-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1H-imidazol-3-ium chloride
 MF C23 H29 N6 . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USP2, USP2FULL
 CRN (785775-69-1)

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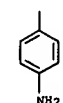


● 2 Cl⁻

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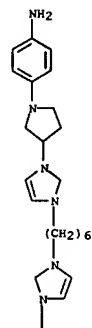
● Cl⁻

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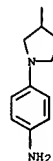
L19 ANSWER 15 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN (Continued)

L19 ANSWER 16 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 667914-95-6 REGISTRY
ED Entered STN: 26 Mar 2004
CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)
MF C32 H44 N8 . 2 Cl
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (748768-65-2)

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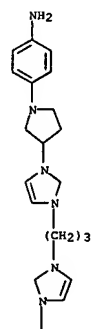
• 2 Cl⁻

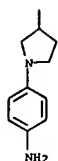
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L19 ANSWER 16 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN (Continued)
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 17 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 667914-90-1 REGISTRY
ED Entered STN: 26 Mar 2004
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dibromide, dihydrobromide (9CI) (CA INDEX NAME)
MF C29 H38 N8 . 2 Br H . 2 Br
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
CRN (781613-57-8)

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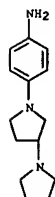


● 2 Br⁻

● 2 HBr

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
1 REFERENCES IN FILE CA (1907 TO DATE)
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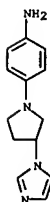
L19 ANSWER 18 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 640725-66-2 REGISTRY
ED Entered STN: 23 Jan 2004
CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl-, monohydrochloride (9CI) (CA INDEX NAME)
MF C14 H21 N3 . Cl H
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (640725-43-5)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

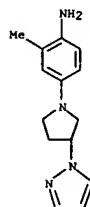
L19 ANSWER 19 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 640725-65-1 REGISTRY
ED Entered STN: 23 Jan 2004
CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)
MF C13 H16 N4 . Cl H
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (640725-40-2)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

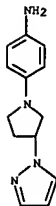
L19 ANSWER 20 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
RN 640725-60-6 REGISTRY
ED Entered STN: 23 Jan 2004
CN Benzenamine, 2-methyl-4-[3-(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H18 N4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

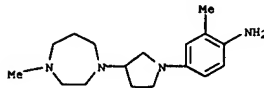
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 21 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-59-3 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



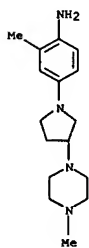
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L19 ANSWER 22 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-56-0 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H28 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



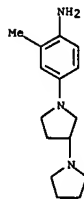
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L19 ANSWER 23 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-55-9 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 2-methyl-4-[3-(4-methyl-1-piperazinyl)-1-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



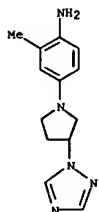
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L19 ANSWER 24 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-54-8 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl-2-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H23 N3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

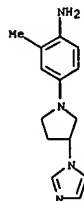
L19 ANSWER 25 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-53-7 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 2-methyl-4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H17 N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
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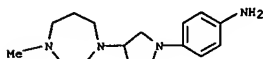
L19 ANSWER 26 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-52-6 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C14 H18 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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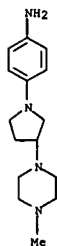
L19 ANSWER 27 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-45-7 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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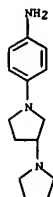
L19 ANSWER 28 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-44-6 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(4-methyl-1-piperazinyl)-1-pyrrolidinyl]- (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C15 H24 N4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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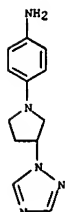
L19 ANSWER 29 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-43-5 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-([1,3'-bipyrrolidin]-1'-yl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H21 N3
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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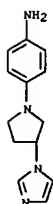
L19 ANSWER 30 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-42-4 REGISTRY
 ED Entered STN: 23 Jan 2004
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 FS 3D CONCORD
 MF C12 H15 N5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



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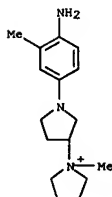
L19 ANSWER 31 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 640725-40-2 REGISTRY
 ED Entered STN: 23 Jan 2004
 CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 N4
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



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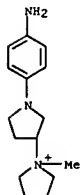
L19 ANSWER 32 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-21-5 REGISTRY
 ED Entered STN: 21 Oct 2003
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
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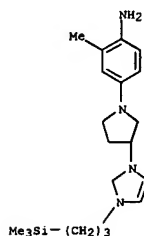
L19 ANSWER 33 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-20-4 REGISTRY
 ED Entered STN: 21 Oct 2003
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 MF C15 H24 N3 . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 CRN (765897-50-5)



● Cl⁻

15 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

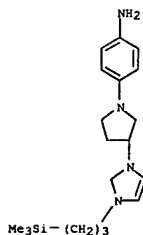
L19 ANSWER 34 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-19-1 REGISTRY
 ED Entered STN: 21 Oct 2003
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 MF C20 H33 N4 Si . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 CRN (778573-39-0)



● Cl⁻

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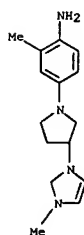
L19 ANSWER 35 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-18-0 REGISTRY
 ED Entered STN: 21 Oct 2003
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 MF C19 H31 N4 Si . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 CRN (749205-99-0)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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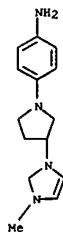
L19 ANSWER 36 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-16-8 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)
 MF C15 H21 N4 . Cl
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 CRN (771473-53-1)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 15 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 37 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-12-4 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)
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 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
 CRN (760171-36-6)



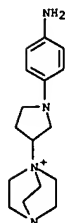
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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 15 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 38 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-09-9 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, methanesulfonate, monohydrochloride (9CI) (CA INDEX NAME)
 MF C16 H25 N4 . C H3 O3 S . Cl H
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

CM 1

CRN 607355-08-8
 CMF C16 H25 N4



CM 2

CRN 16053-58-0
 CMF C H3 O3 S

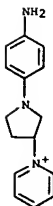


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 39 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-05-5 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)
 MF C15 H18 N3 . C2 H3 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

CM 1

CRN 607355-04-4
 CMF C15 H18 N3



CM 2

CRN 71-50-1
 CMF C2 H3 O2

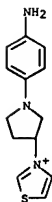


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 40 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-02-2 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Thiazolium, 3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)
 MF C13 H16 N3 S . C2 H3 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

CM 1

CRN 607355-01-1
 CMF C13 H16 N3 S



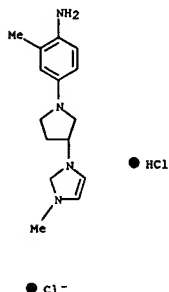
CM 2

CRN 71-50-1
 CMF C2 H3 O2



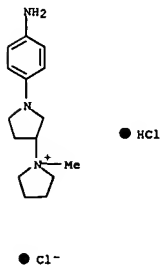
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 41 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607354-98-3 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CH 1-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-3-methyl-1H-imidazol-3-ium chloride monohydrochloride
 MF C15 H21 N4 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (771473-53-1)



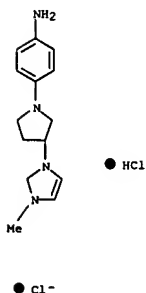
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 42 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607354-93-8 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1,3'-Bispyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 MF C15 H24 N3 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (765897-50-5)



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 43 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607354-86-9 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CH 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride hydrochloride
 MF C14 H19 N4 . Cl H . Cl
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (760171-36-6)

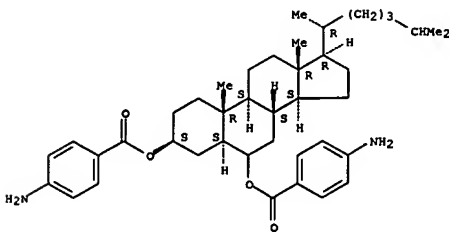


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

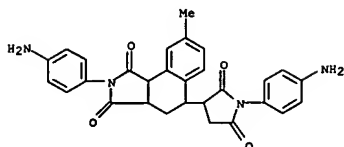
L19 ANSWER 44 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 194216-46-1 REGISTRY
 ED Entered STN: 19 Sep 1997
 CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3β,5α)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 4,4'-methylenebis[benzenamine] and tetrahydro-3a,6a-dimethylcyclobuta[1,2-c:3,4-c']difurantetrone (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1H-Benz[e]isoindole-1,3(2H)-dione, 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-, polymer with (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate), 4,4'-methylenebis[benzenamine] and tetrahydro-3a,6a-dimethylcyclobuta[1,2-c:3,4-c']difurantetrone (9CI)
 CN Benzenamine, 4,4'-methylenebis-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and tetrahydro-3a,6a-dimethylcyclobuta[1,2-c:3,4-c']difurantetrone (9CI)
 CN Cyclobuta[1,2-c:3,4-c']difurantetrone, tetrahydro-3a,6a-dimethyl-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and 4,4'-methylenebis[benzenamine] (9CI)
 FS STEREOSEARCH
 MF (C41 H58 N2 O4 . C29 H26 N4 O4 . C13 H14 N2 . C10 H8 O6)x
 CI PMS
 PCT Polyamic acid, Polyamic acid formed, Polyester, Polyimide, Polyimide formed
 SR CA
 LC STN Files: CA, CAPLUS

CH 1
 CRN 194216-36-9
 CMF C41 H58 N2 O4

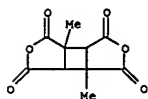
Absolute stereochemistry.



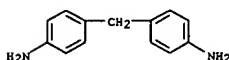
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4

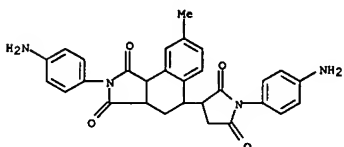
CM 3

CRN 137820-87-2
CMF C10 H8 O6

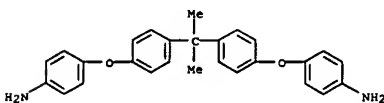
CM 4

CRN 101-77-9
CMF C13 H14 N21 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

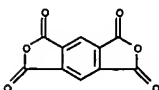
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4

CM 3

CRN 13080-86-9
CMF C27 H26 N2 O2

CM 4

CRN 89-32-7
CMF C10 H2 O61 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

RN 194216-42-7 REGISTRY

ED Entered STN: 19 Sep 1997

CM Cholestane-3,6-diol, bis(4-aminobenzoate), (3β,5α)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[benzenamine] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CM 1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, polymer with

2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[benzenamine] (9CI)

CM 1H-Benz[e]isindole-1,3(2H)-dione, 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-, polymer with 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[benzenamine] (9CI)

CM Benzenamine, 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) (9CI)

FS STEREOSEARCH
MF (C41 H58 N2 O4 . C29 H26 N4 O4 . C27 H26 N2 O2 . C10 H2 O6)x
CI PMS

PCT Polyamic acid, Polyamic acid formed, Polyester, Polyether, Polyimide, Polyimide formed

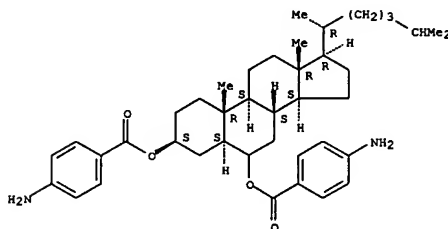
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 194216-36-9
CMF C41 H58 N2 O4

Absolute stereochemistry.



RN 194216-37-0 REGISTRY

ED Entered STN: 19 Sep 1997

CM Cholestane-3,6-diol, bis(4-aminobenzoate), (3β,5α)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[benzenamine] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CM 1H-Benz[e]isindole-1,3(2H)-dione, 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-, polymer with (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate), 4,4'-methylenebis[benzenamine] and 3a,4,5,9b-tetrahydro-5-methyl-5-(tetrahydro-2,5-dioxo-3-furanyl)naphtho[1,2-c]furan-1,3-dione (9CI)

CM Benzenamine, 4,4'-methylenebis-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and 3a,4,5,9b-tetrahydro-5-methyl-5-(tetrahydro-2,5-dioxo-3-furanyl)naphtho[1,2-c]furan-1,3-dione (9CI)

CM Naphtho[1,2-c]furan-1,3-dione, 3a,4,5,9b-tetrahydro-5-methyl-5-(tetrahydro-2,5-dioxo-3-furanyl)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isindole-1,3(2H)-dione, (3β,5α)-cholestane-3,6-diyl bis(4-aminobenzoate) and 4,4'-methylenebis[benzenamine] (9CI)

FS STEREOSEARCH
MF (C41 H58 N2 O4 . C29 H26 N4 O4 . C17 H14 O6 . C13 H14 N2)x
CI PMS

PCT Polyamic acid, Polyamic acid formed, Polyester, Polyimide, Polyimide formed

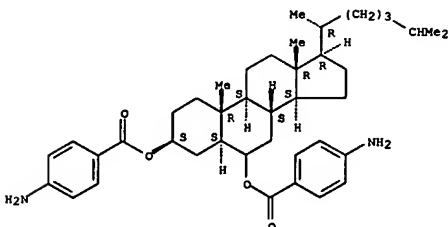
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 194216-36-9
CMF C41 H58 N2 O4

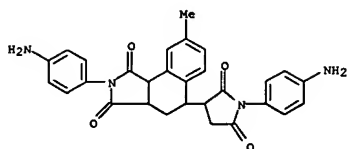
Absolute stereochemistry.



L19 ANSWER 46 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN (Continued)

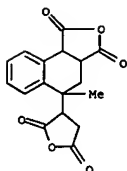
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4



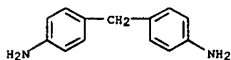
CM 3

CRN 67879-21-4
CMF C17 H14 O6



CM 4

CRN 101-77-9
CMF C13 H14 N2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 47 OF 47 REGISTRY COPYRIGHT 2006 ACS on STN

RN 194216-35-8 REGISTRY

ED Entered STN: 19 Sep 1997

CM 1H-Benz[e]isoindole-1,3(2H)-dione,

2-(4-aminophenyl)-5-[1-(4-aminophenyl)-

2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl- (9CI) (CA INDEX NAME)

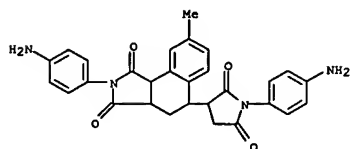
FS 3D CONCORD

MF C29 H26 N4 O4

CI COM

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
92.52	613.12

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:05:13 ON 16 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 16 Feb 2006 VOL 144 ISS 8
FILE LAST UPDATED: 15 Feb 2006 (20060215/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l19

L21 23 L19

=> d ibib abs hitstr 1-23

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
123.97	737.09

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-17.25	-17.25

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 13:13:23 ON 16 FEB 2006

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9

DICTIONARY FILE UPDATES: 14 FEB 2006 HIGHEST RN 874270-88-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

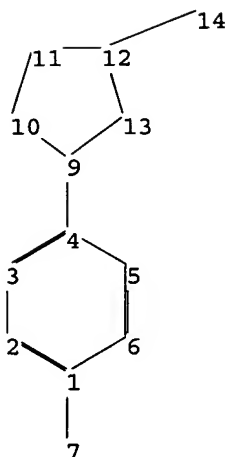
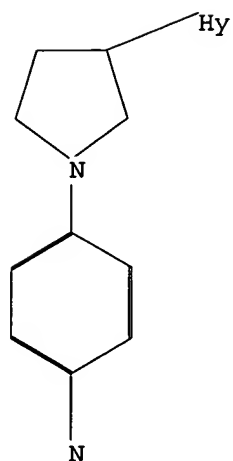
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



chain nodes :

7 14

ring nodes :

1 2 3 4 5 6 9 10 11 12 13

chain bonds :

1-7 4-9 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13

exact/norm bonds :

1-7 4-9 9-10 9-13 12-14

exact bonds :

10-11 11-12 12-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 : 9 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom

12:Atom 13:Atom 14:Atom

Generic attributes :

14:

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : 2 or more

Element Count :

Node 14: Limited

C,C3

N,N2

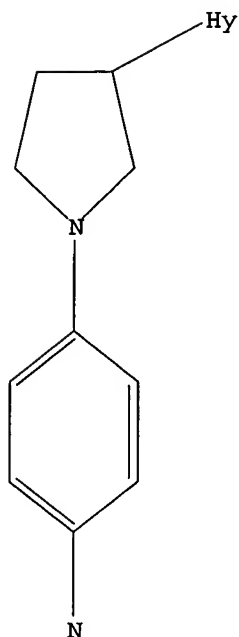
S,S0

O,O0

L22 STRUCTURE UPLOADED

=> d

L22 HAS NO ANSWERS
L22 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l1
SAMPLE SEARCH INITIATED 13:14:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      85 TO ITERATE
```

```
100.0% PROCESSED      85 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.02
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   1147 TO    2253
PROJECTED ANSWERS:      0 TO      0
```

L23 0 SEA SSS SAM L1

```
=> s l1 full
FULL SEARCH INITIATED 13:14:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    1714 TO ITERATE
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100.0% PROCESSED    1714 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
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L24 0 SEA SSS FUL L1

```
=> s l22
SAMPLE SEARCH INITIATED 13:15:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    2680 TO ITERATE
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```
74.6% PROCESSED    2000 ITERATIONS      1 ANSWERS
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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 50495 TO 56705
PROJECTED ANSWERS: 1 TO 95

L25 1 SEA SSS SAM L22

=> s l22 full
FULL SEARCH INITIATED 13:15:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 55930 TO ITERATE

100.0% PROCESSED 55930 ITERATIONS 46 ANSWERS
SEARCH TIME: 00.00.01

L26 46 SEA SSS FUL L22

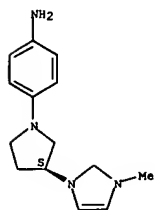
=> s l26 and caplus/lc
49740058 CAPLUS/LC
L27 29 L26 AND CAPLUS/LC

=> s l26 not l27
L28 17 L26 NOT L27

=> d l28 1-17

L28 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-70-4 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN 1H-Imidazolium, 1-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl- (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H19 N4
 CI COM
 SR CA

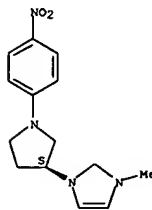
Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

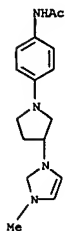
L28 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852619-39-7 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN 1H-Imidazolium, 1-methyl-3-[(3S)-1-(4-nitrophenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H17 N4 O2
 CI COM
 SR CA

Absolute stereochemistry.



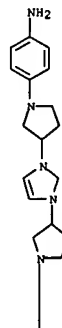
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852615-58-8 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN 1H-Imidazolium, 1-[1-(4-(acetylamino)phenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C16 H21 N4 O
 CI COM
 SR CA

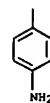


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 785775-69-1 REGISTRY
 ED Entered STN: 22 Nov 2004
 CN 1H-Imidazolium, 1,3-bis[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C23 H29 N6
 CI COM
 SR CA



PAGE 1-A

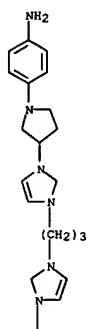


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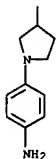
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 781613-57-8 REGISTRY
 ED Entered STN: 16 Nov 2004
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C29 H38 N8
 CI COM
 SR CA

PAGE 1-A

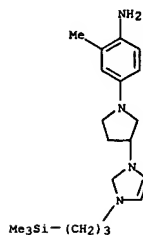


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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

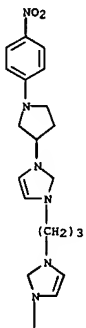
L28 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 778573-39-0 REGISTRY
 ED Entered STN: 11 Nov 2004
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 MF C20 H33 N4 Si
 CI COM
 SR CA



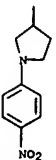
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L28 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 773847-98-6 REGISTRY
 ED Entered STN: 02 Nov 2004
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-nitrophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C29 H34 N8 O4
 CI COM
 SR CA

PAGE 1-A

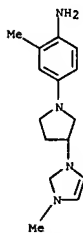


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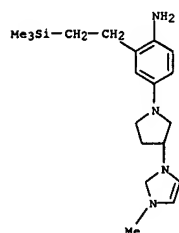
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L28 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 771473-53-1 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C15 H21 N4
 CI COM
 SR CA



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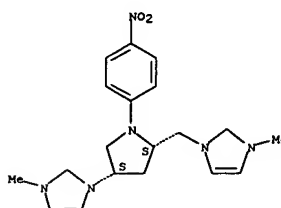
L28 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 769921-12-2 REGISTRY
 ED Entered STN: 27 Oct 2004
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 MF C19 H31 N4 Si
 CI COM
 SR CA



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L28 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 764662-26-2 REGISTRY
 ED Entered STN: 18 Oct 2004
 CN 1H-Imidazolium, 1-[(3S,5S)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-1-(4-nitrophenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREORESEARCH
 MF C19 H24 N6 O2
 CI COM
 SR CA

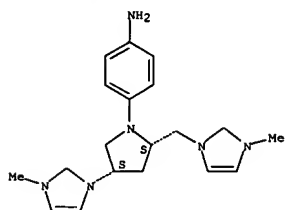
Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

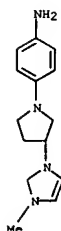
L28 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 764662-22-8 REGISTRY
 ED Entered STN: 18 Oct 2004
 CN 1H-Imidazolium, 1-[(3S,5S)-1-(4-aminophenyl)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREORESEARCH
 MF C19 H26 N6
 CI COM
 SR CA

Absolute stereochemistry.



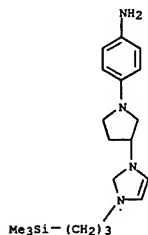
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L28 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 760171-36-6 REGISTRY
 ED Entered STN: 11 Oct 2004
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 MF C14 H19 N4
 CI COM
 SR CA



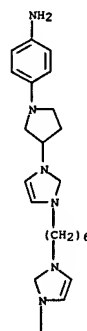
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749205-99-0 REGISTRY
 ED Entered STN: 22 Sep 2004
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 MF C19 H31 N4 Si
 CI COM
 SR CA



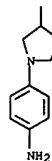
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748768-65-2 REGISTRY
 ED Entered STN: 21 Sep 2004
 CN 1H-Imidazolium, 1,1'-[1,6-hexanediyl]bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C32 H44 N8
 CI COM
 SR CA



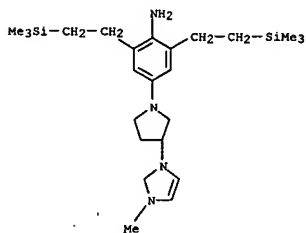
PAGE 1-A

PAGE 2-A



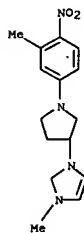
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 740082-89-7 REGISTRY
 ED Entered STN: 06 Sep 2004
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C24 H43 N4 Si2
 CI COM
 SR CA



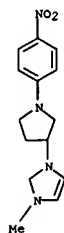
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L28 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607354-95-0 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 1H-Imidazolium, 1-methyl-3-[1-(3-methyl-4-nitrophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C15 H19 N4 O2
 CI COM
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L28 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2006 ACS on STN
RN 607354-83-6 REGISTRY
ED Entered STN: 21 Oct 2003
CN 1H-Imidazolium, 1-methyl-3-[1-(4-nitrophenyl)-3-pyrrolidinyl]- (9CI) (CA
INDEX NAME)
MF C14 H17 N4 O2
CI COM
SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE LAST UPDATED: 15 Feb 2006 (20060215/ED)

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FILE 'REGISTRY' ENTERED AT 12:54:31 ON 16 FEB 2006

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L3 STRUCTURE UPLOADED
L4 0 S L1
L5 0 S L1 FULL

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L6 1 S US20040077852/PN
SELECT L6 1 RN

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L7 48 S E1-E48

FILE 'REGISTRY' ENTERED AT 12:57:35 ON 16 FEB 2006

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L9 8658 S L3 FULL
L10 STRUCTURE UPLOADED
L11 303 S L10 FULL SUB=L9
L12 205 S L11 AND CAPLUS/LC
L13 STRUCTURE UPLOADED
L14 239 S L13 FULL SUB=L11
L15 0 S L14 AND CAPLUSL/C

L16 149 S L14 AND CAPLUS/LC
L17 STRUCTURE UPLOADED
L18 67 S L17 FULL SUB=L14
L19 47 S L18 AND CAPLUS/LC
L20 20 S L18 NOT L19

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FILE 'REGISTRY' ENTERED AT 13:03:41 ON 16 FEB 2006

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L21 23 S L19

FILE 'REGISTRY' ENTERED AT 13:13:23 ON 16 FEB 2006
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L24 0 S L1 FULL
L25 1 S L22
L26 46 S L22 FULL
L27 29 S L26 AND CAPLUS/LC
L28 17 S L26 NOT L27

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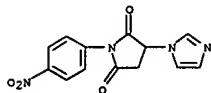
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L31 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:477923 CAPLUS
 DOCUMENT NUMBER: 81:77923
 TITLE: Imidazole derivatives
 INVENTOR(S): Hasegawa, Gen; Kotani, Akeshi
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JK00AF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49049959	A2	19740515	JP 1972-93335	19720916
JP 55038949	B4	19801007		

PRIORITY APPLN. INFO.: JP 1972-93335 A 19720916

GI For diagram(s), see printed CA Issue.
 AB Imidazole derivs. [I; R = H, lower alkyl, cycloalkyl, aryl with or without substituents, aralkyl (substituents may be selected from halo, lower alkyl, lower alkoxy, lower alkoxy carbonyl, lower alkylthio, polyhalo lower alkyl, NO₂); X = H, lower alkyl, aryl] were prepared by reacting II with cis-HO₂CCH:CHCONHR. I had anti-tremor, anti-convulsant, and fighting inhibitory actions. E.g., a mixture of 3.4 g imidazole and 5.8 g maleamic acid in DMF was refluxed 20 hr, 40 ml Ac₂O and 4 g AcONa were added, and the whole was refluxed 2 hr to give 2.1 g 1-imidazolylsuccinimide. Among 16 more I similarly prepared, were the following (R and X given): Bu, H; Ph, H; cyclododecyl, 2-Me; p-ETOC₆H₄, 4-Ph.
 IT 53616-14-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53616-14-1 CAPLUS
 CN 2,5-Pyrrolidinedione, 3-(1H-imidazol-1-yl)-1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.75

-18.00

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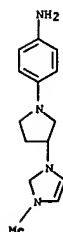
L21 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:673828 CAPLUS
DOCUMENT NUMBER: 143:179089
TITLE: Hair dye composition containing an alcohol oxidase and
a cationic oxidation base for dyeing keratin fibers
INVENTOR(S): Plos, Gregory
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 48 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2865388	A1	20050729	FR 2004-775	20040128
EP 1559412	A1	20050803	EP 2005-290126	20050120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
US 2005257329	A1	20051124	US 2005-44080	20050128
PRIORITY APPLN. INFO.:			FR 2004-775	A 20040128
			US 2004-544324P	P 20040217

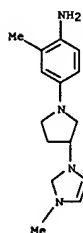
OTHER SOURCE(S): MARPAT 143:179089
AB A composition for the dyeing of keratinous fibers, in particular of human keratinous fibers such as the hair, contains at least an alc. oxidase enzyme, a substrate for this enzyme, and at least a cationic oxidation base.
A hair dye contained
[1-(4-aminophenyl)-pyrrolidin-3-yl]-trimethylammonium chloride 3x10⁻³ mole, ethanol 25 g, meta-aminophenol 3x10⁻³ mole, alc. oxidase 20000 units, 2-amino-2-methyl-1-propanol q.s. pH = 7, and water q.s. 100 g.
IT 607355-12-4 607355-16-8 607355-18-0
607355-20-4 607355-21-5 701975-28-2
701975-31-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye composition containing alc. oxidase and cationic oxidation base for dyeing keratin fibers)
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl⁻

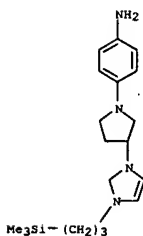
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

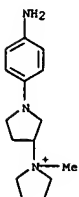
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl⁻

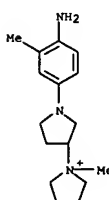
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-20-4 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

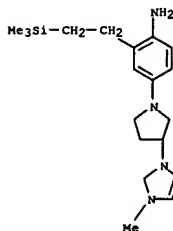
RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



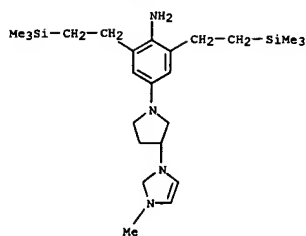
● Cl⁻

RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2005:467804 CAPLUS
 DOCUMENT NUMBER: 143:7491
 TITLE: Process for the preparation of p-phenylenediamines
 comprising pyrrolidines substituted by nitrogen
 radicals and their intermediates via
 cyclocondensation
 of p-substituted anilines with 1,4-dihalo-2-butanols
 INVENTOR(S): Bordier, Thierry; Xu, Jinzhu
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 41 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

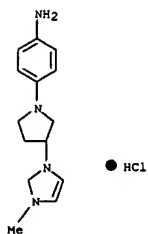
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1535905	A1	20050601	EP 2004-106117	20041126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
FR 2862969	A1	20050603	FR 2003-50939	20031128
US 2005209466	A1	20050922	US 2004-995558	20041124
PRIORITY APPLN. INFO.:			FR 2003-50939	A 20031128

OTHER SOURCE(S): MARPAT 143:7491
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention is related to the preparation of p-phenylenediamines I via
 cyclocondensation of p-substituted anilines II with 1,4-disubstituted-2-
 butanols of formula Y-(CH₂)₂-CH(OH)-CH₂-Y [the carbon connecting R₂ to
 pyrrolidine ring is a/chiral; n = 0-4; when n ≥ 2, R₁ = identical or
 different; R₁ = halo, linear or branched aliphatic hydrocarbyl, aryl,
 etc.:
 R₁ cannot be a peroxide bond, N³⁺, NO₂, or NO; R₂ = (non)cationic N
 radical]. The advantages include elimination of 3-pyrrolidinol as
 starting material, use of cheap materials, and a viable industrial
 scale-up. Thus, cyclocondensation of 4-aminoacetanilide with
 1,4-dibromo-2-butanol gave pyrrolidinol III in 72.7% yield. Activation
 of
 III with MeSO₂Cl, substitution with TMA in EtOH, and HCl-catalyzed
 deacetylation gave IV=Cl=HCl.
 IT 607354-86-9P, 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-
 imidazol-1-ium Chloride hydrochloride 607354-98-3P,
 1-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-3-methyl-1H-imidazol-3-ium
 chloride monohydrochloride 852615-62-4P, [1-(4-
 Aminophenyl)pyrrolidin-3-yl]pyridinium chloride monohydrochloride
 852615-63-5P, [1-(4-Aminophenyl)pyrrolidin-3-
 yl](methyl)piperidinium chloride monohydrochloride
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation of p-phenylenediamines comprising pyrrolidines
 substituted by
 nitrogen radicals and their intermediates via cyclocondensation of

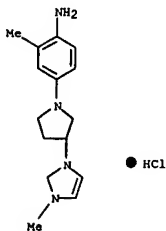
p-substituted anilines with 1,4-dihalo-2-butanols)
 RN 607354-86-9 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607354-98-3 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-,
 chloride, monohydrochloride (9CI) (CA INDEX NAME)

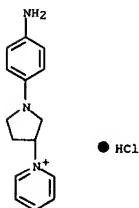


● HCl

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 852615-62-4 CAPLUS

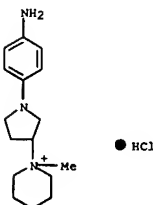
CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

● Cl⁻

RN 852615-63-5 CAPLUS
 CN Piperidinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-1-methyl-, chloride,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

● Cl⁻

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L21 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2005:467803 CAPLUS
DOCUMENT NUMBER: 143:7490
TITLE: Process for the preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinol derivatives without isolating (R)-3-pyrrolidinols intermediates, and para-phenylenediamines comprising chiral pyrrolidinyl groups for use in dyeing compositions for keratinous fibers

INVENTOR(S): Bordier, Thierry; Xu, Jinzhu
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXKDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1535904	A2	20050601	EP 2004-106111	20041126
EP 1535904	A3	20050713		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
FR 2862970	A1	20050603	FR 2003-50940	20031128
US 2005209464	A1	20050922	US 2004-995559	20041124
			FR 2003-50940	A 20031128
PRIORITY APPLN. INFO.:			US 2003-531966P	P 20031224

OTHER SOURCE(S): MARPAT 143:7490
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

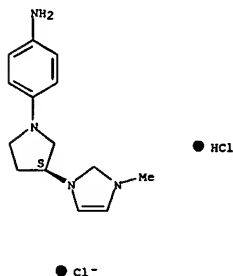
AB The invention is related to the preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinol deriva. (I) without isolating (R)-3-pyrrolidinols intermediates by decarboxylation of trans-4-hydroxy-L-proline (II), amination of 4-halonitrobenzene III with II, followed by optionally inversion of configuration [n = 0-4; when n ≥ 2, R1 = identical or different; r1 = H, linear or branched aliphatic hydrocarbyl, aryl, etc.; R2 = (non)cationic nitrogen radical]. The invention is also related to the preparation of chiral amines IV and their use as oxidation bases in dyeing compns. for keratinous fibers and dyeing kit containing said compns. (no data). The advantages include reduced number of steps, high global yield, and simple process. For example, decarboxylation of II in NMP at 155 for 3 h and amination of 4-fluoronitrobenzene with (R)-3-pyrrolidinol generated in-situ gave I (R1 = H). $\text{VcCl} \rightarrow \text{HCl}$ was prepared in 3 steps by activation of I (R1 = H) with MeSO_2Cl , substitution with N-methylimidazole, and hydrogenation over Pd/C.

IT 852619-37-SP
RL: COS (Cosmetic use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinols without

L21 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

isolating (R)-3-pyrrolidinols intermediates, and para-phenylenediamines comprising chiral pyrrolidinyl groups for use in dyeing compns. for keratinous fibers)
RN 852619-37-5 CAPLUS
CN 1H-Imidazolium, 1-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L21 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2005:118441 CAPLUS
DOCUMENT NUMBER: 142:229090
TITLE: Liquid crystal orientation agent, liquid crystal orientation film, and liquid crystal display element
INVENTOR(S): Mutsaers, Yasuaki
PATENT ASSIGNEE(S): JSR Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005037920	A2	20050210	JP 2004-183328	20040622
PRIORITY APPLN. INFO.:			JP 2003-178983	A 20030624

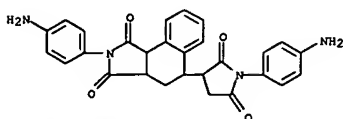
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disclosed is the liquid crystal orientation agent containing ≥1 polymer selected from I-IV (Q, R = tetravalent organic group; and X, Y = divalent organic group).

IT 842125-84-2
RL: NUU (Other use, unclassified); USES (Uses) (liquid crystal orientation agent and film therefrom for LCD element)

RN 842125-84-2 CAPLUS
CN 1H-Benz[e]isoindole-1,3(2H)-dione, 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro- (9CI) (CA INDEX NAME)



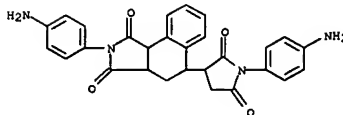
IT 842125-88-6P
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (liquid crystal orientation agent and film therefrom for LCD element)

RN 842125-88-6 CAPLUS
CN Cyclobuta[1,2-c:3,4-c']difurantetrone, tetrahydro-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-1H-benz[e]isoindole-1,3(2H)-dione (9CI) (CA INDEX NAME)

CM 1

CRN 842125-84-2

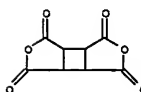
L21 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



CM 2

CRN 4415-87-6

CMF C8 H4 O6



L21 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

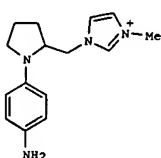
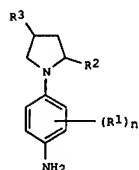
ACCESSION NUMBER: 2004:796305 CAPLUS
DOCUMENT NUMBER: 141:295851

TITLE: Preparation of p-phenylenediamines with a disubstituted pyrrolidine group, bearing a cationic radical and their use for dyeing keratinic fibers
INVENTOR(S): Ramos, Laure; Sabelle, Stephane
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1462453	A1	20040929	EP 2004-290635	20040309
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				
FR 2852953	A1	20041001	FR 2003-3873	20030328
JP 2004300155	A2	20041028	JP 2004-93404	20040326
US 2004248961	A1	20041209	US 2004-810814	20040329
PRIORITY APPLN. INFO.:			FR 2003-3873	A 20030328
			US 2003-469013P	P 20030509

OTHER SOURCE(S): MARPAT 141:295851
GI



AB Title compds. I [wherein n = 0-4; when n ≥ 2, R1 can be identical or different; R1 = halo, Z, (un)saturated (un)substituted aliphatic or alicyclic hydrocarbon, optionally containing one or more O, Si, S, or SO2; R1 is not -O-O-, diazo, nitro or nitroso; R2 = Z, CO2H and derivs., monoalkyl/dialkyl/carbamoyl, etc.; R3 = Z, H, OH and derivs., NH2 and derivs., SH, CO2H and derivs., monoalkyl/dialkyl/carbamoyl, alkylsulfonyl, alkyl, etc.; provided that at least one of R2 and R3 is an onium radical; Z = onium radical selected from trialkylammonium, pyridinium, 1H-imidazol-3-ium; 3H-imidazol-1-ium, etc.; and their addition salts] were prepared as oxidation bases for dyeing keratinous fibers, in particular human

L21 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

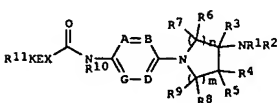
ACCESSION NUMBER: 2004:696342 CAPLUS
DOCUMENT NUMBER: 141:225302

TITLE: Preparation of N-arylheterocycles as melanin concentrating hormone (MCH) antagonists.
INVENTOR(S): Schwink, Lothar; Stengelin, Siegfried; Gossel, Matthias; Boehme, Thomas; Hessler, Gerhard; Stahl, Petra; Grotzke, Dirk
PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany
SOURCE: PCT Int. Appl., 390 pp.
CODEN: P1XXD2

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072025	A2	20040826	WO 2004-EP1342	20040213
WO 2004072025	A3	20041223		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NG, NO, NZ, OM, PA, PE, PG, PH, PI, PK, PL, PT, RW, SG, SI, SK, SL, SM, SN, SV, SZ, TD, TH, TJ, TM, TR, TT, TZ, UA, UG, UZ, VC, VE, VU, WF, WI, WO, WS, XG, YU, ZA, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10306250	A1	20040909	DE 2003-10306250	20030214
CA 2516118	AA	20040826	CA 2004-2516118	20040213
EP 1597228	A2	20051123	EP 2004-710808	20040213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004220191	A1	20041104	US 2004-779853	20040217
NO 2005004220	A	20051028	NO 2005-4220	20050912
PRIORITY APPLN. INFO.:			DE 2003-10306250	A 20030214
			US 2003-488545P	P 20030718
			WO 2004-EP1342	W 20040213

OTHER SOURCE(S): MARPAT 141:225302
GI



AB Title compds. [I: R1, R2 = H, alkyl, alkoxyalkyl, aryloxyalkyl, alkylcarbamoyl, alkenylcarbamoyl, etc.; R1R2N = atoms to form a 4-10 membered mono-, bi-, or spirocyclic (substituted) ring; R3 = H, alkyl; R4, R5 = H, alkyl, OH, alkoxy, alkylcarbamoyloxy, alkylthio; R6-R9 = H, alkyl; R6R7, R8R9 = O; A, B, D, G = N, CR42; AB, DG = CR42; R42 = H, F, Cl, Br,

L21 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
hair fibers. For example, II=Cl-HCl was prep., in 3 steps, via substitution of 2-chloromethyl-1-(4-nitrophenyl)pyrrolidine (prepn. given)

in N-methylimidazole in toluene at reflux for 9 h, and hydrogenation of the nitro deriv. over Pd/C. Formulations of II=Cl-HCl in acidic medium gave blue-violet and gray shades.

IT 764662-23-9P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidation base in dyeing; preparation of p-phenylenediamines with a disubstituted pyrrolidine group, bearing a cationic radical and their use for dyeing keratinic fibers)

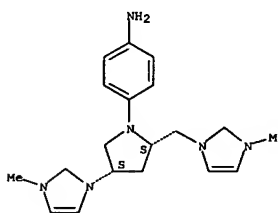
RN 764662-23-9 CAPLUS
CN 1H-Imidazolium,
1-[(3S,5S)-1-(4-aminophenyl)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl-, dimethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 764662-22-8

CMF C19 H26 N6

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 16053-58-0

CMF C H3 O3 S



L21 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

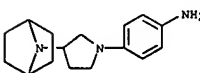
iodo, CF3, NO2, cyano, OCF3, alkoxy, alkylthio, alkenyl, cycloalkyl, cycloalkoxy, cycloalkenyl, alkynyl, CO2H, etc.; R10 = H, alkyl, alkenyl, alkynyl; X = NR52, O, bond, C=C, C.tplbond.C, etc.; R52 = H, alkyl; E = (substituted) C3-14 carbocyclyl, heterocyclyl; K = bond, O, CH2O, S, SO, CO, C=C, C.tplbond.C, etc.; R11 = H, alkyl, alkoxyalkyl, alkenyl, alkynyl

3-10 membered (substituted) mono-, bi-, tri- or spirocyclic ring; EKR11 = (unsatd.) tricyclic ring; m, n = 0-21, were prep. Thus, N-[1-(4-aminophenyl)pyrrolidin-3-yl]piperidine was treated with carbonyldiimidazole and then with 4-(4-chlorophenyl)piperidine to give 4-(4-chlorophenyl)piperidine-1-carboxylic acid [4-(3-(acetylmethylamino)pyrrolidin-1-yl)phenyl]amide. The latter at 30 mg/kg orally in female NMRI mice reduced milk consumption by 64%.

IT 748183-30-4P 748183-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-arylheterocycles as MCH antagonists)

RN 748183-30-4 CAPLUS

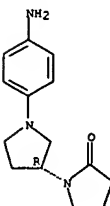
CN Benzenamine, 4-[3-(7-azabicyclo[2.2.1]hept-7-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 748183-31-5 CAPLUS

CN [1,3'-Bipyrrolidin]-2-one, 1'-(4-aminophenyl)-, (3'R)- (9CI) (CA INDEX NAME)

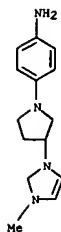
Absolute stereochemistry.



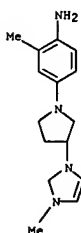
ACCESSION NUMBER: 2004:482172 CAPLUS
 DOCUMENT NUMBER: 141:42544
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a vitamin derivative
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 52 pp.
 CODEN: EPOXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428517	A1	20040616	EP 2003-293142	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848431	A1	20040618	FR 2002-15764	20021213
US 2004205904	A1	20041021	US 2003-735291	20031212
PRIORITY APPLN. INFO.: FR 2002-15764 A 20021213				
US 2003-444634P P 20030204				

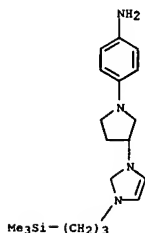
OTHER SOURCE(S): MARPAT 141:42544
 AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a vitamin derivative. Thus, a composition contained oleyl alc:
 6, oleic acid 3, diglycerol oleyl ether 6, hexaglycerol oleyl ether 6, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dillnoleic acid 1.5, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, niacinamide 0.2, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H₂O₂ and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0
 607355-19-1 607355-20-4 607355-21-5
 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and vitamin derivative)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

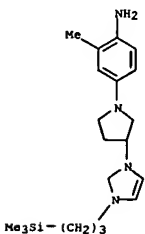
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

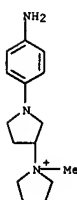
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

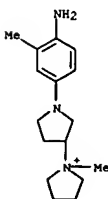
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

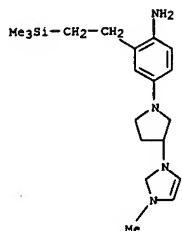
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-[1-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

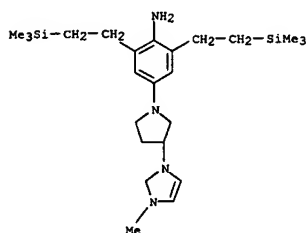
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-[1-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

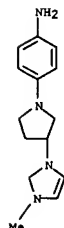
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

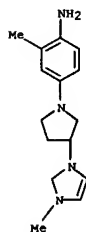
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

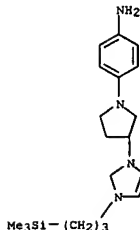
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

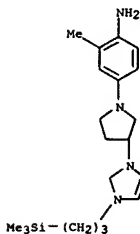
L21 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482171 CAPLUS
 DOCUMENT NUMBER: 141:42543
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol ester
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 49 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428516	A1	20040616	EP 2003-293141	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848443	A1	20040618	FR 2002-15776	20021213
US 2004211010	A1	20041028	US 2003-734612	20031212
PRIORITY APPLN. INFO.:			FR 2002-15776	A 20021213
			US 2003-444625P	P 20030204

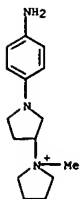
OTHER SOURCE(S): MARPAT 141:42543
 AB Hair dyeing compns. comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol ester. Thus, a composition contained oleyl alc.
 4, oleic acid 5, diglycerol oleyl ether 4, tetraglycerol oleyl ether 3.6, ethoxylated amino acid 8, ethoxylated oleylamine 4, ethoxylated decyl ether 2.7, PEG oleate 2.5, adipic acid 1.3, reducing agents 0.63, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, 5-N(β-hydroxyethyl)amino-2-methylphenol 0.4, perfume qs, ammonia 10, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0 607355-19-1 607355-20-4 607355-21-5 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising cationic phenylenediamine with pyrrolidine ring and polyol ester)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

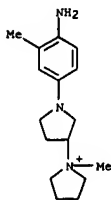
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

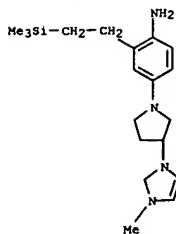
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bispyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

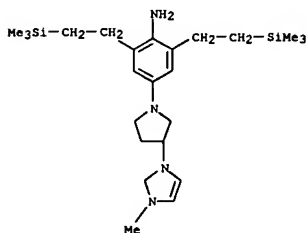
RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-[4-amino-3-methylphenyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

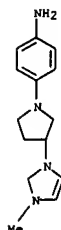
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
REFERENCE COUNT: 5
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

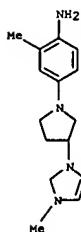
ACCESSION NUMBER: 2004:482170 CAPLUS
DOCUMENT NUMBER: 141:42542
TITLE: Hair dyeing compositions comprising a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a surfactant
INVENTOR(S): Cottaret, Jean; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fc.
SOURCE: Eur. Pat. Appl., 53 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428515	A1	20040616	EP 2003-293140	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848437	A1	20040618	FR 2002-15770	20021213
US 2004216243	A1	20041104	US 2003-735262	20031212
PRIORITY APPLN. INFO.:			FR 2002-15770	A 20021213
			US 2003-444654P	P 20030204

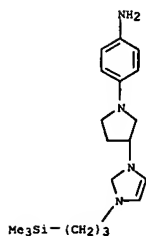
OTHER SOURCE(S): MARPAT 141:42542
AB Hair dyeing comps. comprise a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a surfactant such as a glyceryl ether. Thus, a composition contained oleyl alc. 6, oleic acid 3, diglyceryl oleyl ether 6, hexaglyceryl oleyl ether 6, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, (1-(4-aminophenyl)pyrrolidin-3-yl)trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
IT 607355-12-4 607355-16-8 607355-18-0
607355-19-1 607355-20-4 607355-21-5
701975-28-2 701975-31-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing comps. comprising cationic p-phenylenediamine with pyrrolidine ring and surfactant)
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

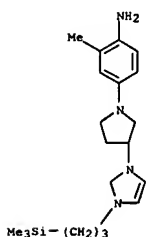
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

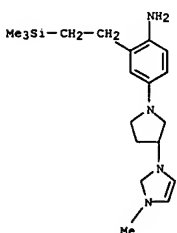
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

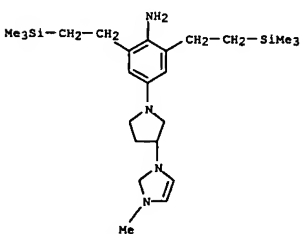
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

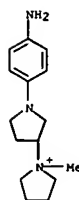
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-[4-aminophenyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

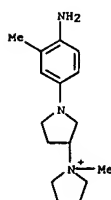
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-[4-aminophenyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2004:482169 CAPLUS
 DOCUMENT NUMBER: 141:42541
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a benzomorpholine coupler
 INVENTOR(S): Cottard, Francois; Rondeau, Christine
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 53 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

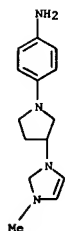
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428514	A1	20040616	EP 2003-293139	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848441	A1	20040618	FR 2002-15774	20021213
FR 2848441	B1	20050304		
US 2004205903	A1	20041021	US 2003-735288	20031212
			FR 2002-15774	A 20021213
PRIORITY APPLN. INFO.:			US 2003-450331P	P 20030228

AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a benzomorpholine coupler. Thus, a composition contained
 oleyl alc. 6, oleic acid 3, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, reducing agents 0.915, sequestrants 1, p-aminophenol 0.2, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.3, N,N-(2-Hydroxyethyl)-p-phenylenediamine sulfate 0.3, 6-hydroxybenzomorpholine 0.45, perfume qs, ammonia 10.2, and water qs to 100 g.

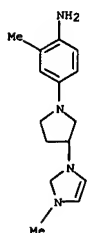
IT 607355-12-4 607355-16-0 607355-18-0
 607355-19-1 607355-20-4 607355-21-5
 701975-28-2 701975-31-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising cationic phenylenediamine with pyrrolidine ring and benzomorpholine coupler)

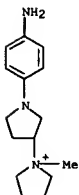
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

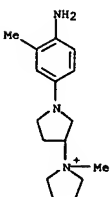
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

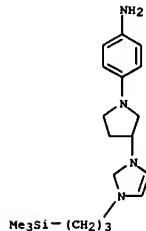
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

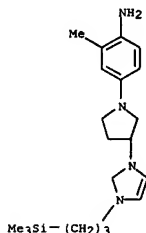
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

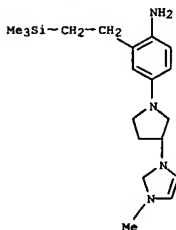
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

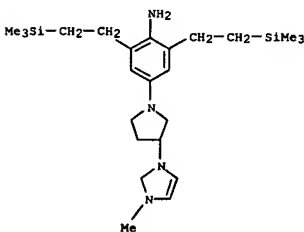
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[(4-amino-3-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2004:482168 CAPLUS
DOCUMENT NUMBER: 141:42540

TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and an opacifying or pearlescent agent
INVENTOR(S): Cotteret, Jean; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXKDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428513	A1	20040616	EP 2003-293138	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848440	A1	20040618	FR 2002-15773	20021213
US 2004250356	A1	20041216	US 2003-735258	20031212
PRIORITY APPLN. INFO.:			FR 2002-15773	A 20021213
			US 2003-450353P	P 20030228

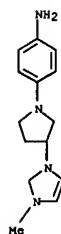
OTHER SOURCE(S): MARPAT 141:42540

AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and an opacifying or pearlescent agent. Thus, a composition contained Nafol 20-22 3, Marlipal-2022/300 1, ethoxylated stearyl alc. 6.25, oleic acid 2.6, carbopol-980 0.6, Aculyne-44 4, Flonac FS20C 0.25, coco fatty acid monoisopropanolamide 3, cationic polymer 4, propylene glycol 6, sodium metasilicate 0.71, EDTA 0.2, tert-butylhydroquinone 0.3, 3-[1-(4-aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-1-imidazolium chloride 0.8, 5-N(β-hydroxyethylamino-2-methylphenol) 0.4, monoethanolamine 1, perfume qs, ammonia 11, and water qs to 100 g. The above composition

was mixed with 6% H2O2 and applied onto hair.

IT 607355-12-4 607355-16-8 607355-18-0
607355-19-1 607355-20-4 607355-21-5
701975-28-2 701975-31-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and opacifying or pearlescent agents)

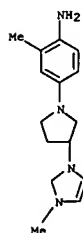
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

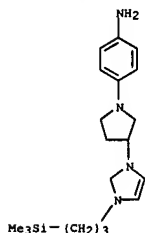
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

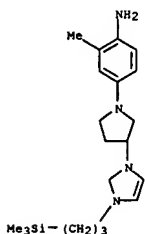
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

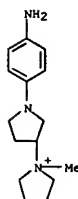
RN 607355-19-1 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

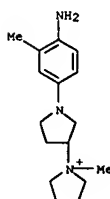
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-20-4 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-[1-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



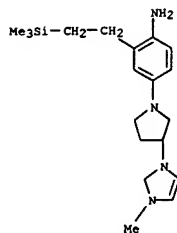
● Cl⁻

RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-[1-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

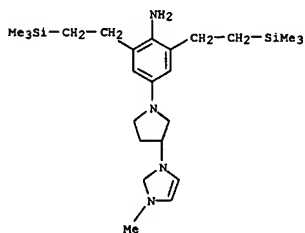


● Cl⁻

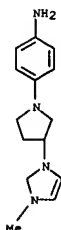
RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

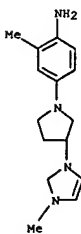
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

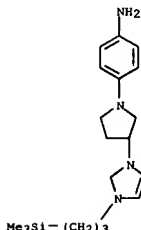
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

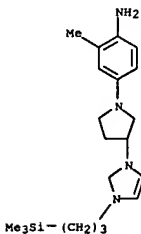
L21 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482167 CAPLUS
 DOCUMENT NUMBER: 141:42539
 TITLE: Hair dyeing compositions comprising a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a p-aminophenol
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 51 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428512	A1	20040616	EP 2003-293137	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848436	A1	20040618	FR 2002-15769	20021213
US 2004216245	A1	20041104	US 2003-735284	20031212
PRIORITY APPL. INFO.:			FR 2002-15769	A 20021213
			US 2003-451255P	P 20030304

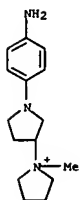
OTHER SOURCE(S): MARPAT 141:42539
 AB Hair dyeing comps. comprise a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a p-aminophenol. Thus, a composition contained oleyl alc. 6, oleic acid 3, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, a p-aminophenol 0.2, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0 607355-19-1 607355-20-4 607355-21-5 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing comps. comprising cationic phenylenediamine with pyrrolidine ring and aminophenol)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

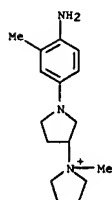
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

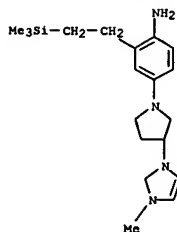
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bispyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

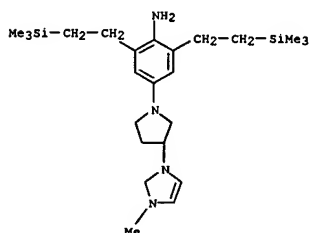
RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-[4-amino-3-methylphenyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

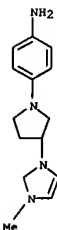
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

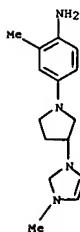
ACCESSION NUMBER: 2004:482166 CAPLUS
DOCUMENT NUMBER: 141:42538
TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a cationic polymer
INVENTOR(S): Cotteret, Jean; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 49 pp.
CODEN: EPOXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428511	A1	20040616	EP 2003-293136	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2849432	A1	20040618	FR 2002-15765	20021213
US 2004231068	A1	20041125	US 2003-735249	20031212
			FR 2002-15765	A 20021213
			US 2003-450326P	P 20030228

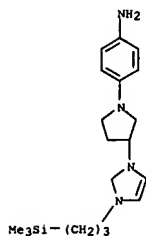
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 141:42538
AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a cationic polymer. Thus, a composition contained
oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammonosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
IT 607355-12-4 607355-16-8 607355-18-0 607355-19-1 607355-20-4 607355-21-5 701975-28-2 701975-31-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and cationic polymer)
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

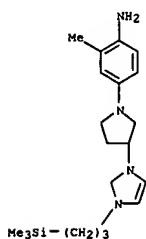
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

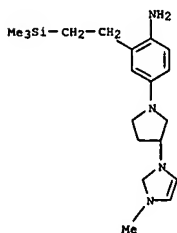
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

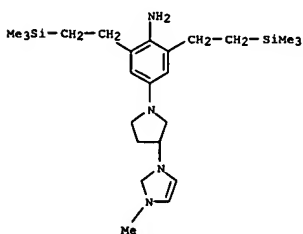
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

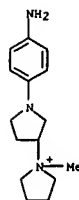
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

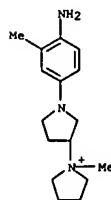
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2004:482165 CAPLUS
 DOCUMENT NUMBER: 141:59175
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a heterocyclic coupler or a hydroxybenzamide
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 59 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428510	A1	20040616	EP 2003-293135	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848434	A1	20040618	FR 2002-15767	20021213
US 2004231067	A1	20041125	US 2003-734750	20031212
PRIORITY APPLN. INFO.:			FR 2002-15767	A 20021213
			US 2003-450322P	P 20030228

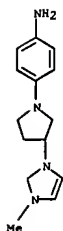
OTHER SOURCE(S): MARPAT 141:59175
 AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a heterocyclic coupler or a hydroxybenzamide. Thus, a composition contained oleyl alc. 6, oleic acid 3, polyglyceryl oleyl ether

12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, 6-methoxy-2,3-diaminopyridine 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 64 H2O2 and applied onto hair.

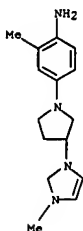
IT 607355-12-4 607355-16-8 607355-18-0
 607355-19-1 607355-20-4 607355-21-5
 701975-28-2 701975-31-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and heterocyclic coupler or hydroxybenzamide)

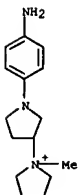
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

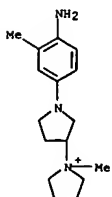
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

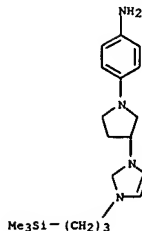
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

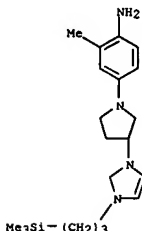
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

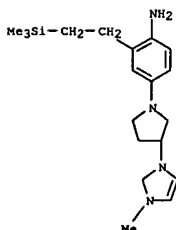
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

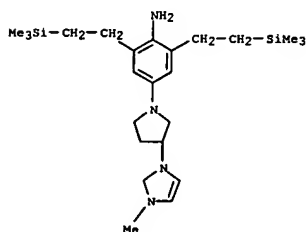
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

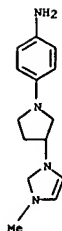
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2004:482164 CAPLUS
 DOCUMENT NUMBER: 141:42537
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

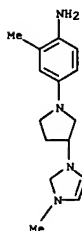
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428509	A1	20040616	EP 2003-293134	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848438	A1	20040618	FR 2002-15771	20021213
US 2004226109	A1	20041118	US 2003-734653	20031212
PRIORITY APPL. INFO.:			FR 2002-15771	A 20021213
			US 2003-444648P	P 20030204

OTHER SOURCE(S): MARPAT 141:42537
 AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol. Thus, a composition contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0 607355-19-1 607355-20-4 607355-21-5 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and polyol)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

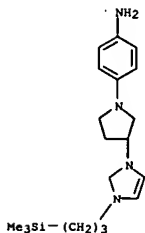
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

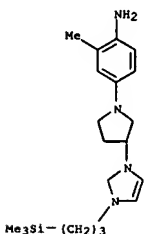
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

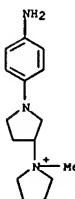
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

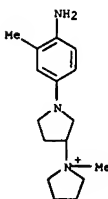
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

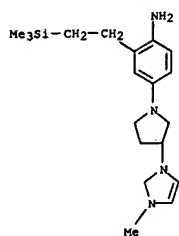
RN 607355-21-5 CAPLUS

CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

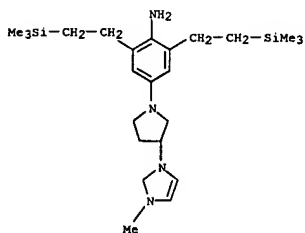
● Cl⁻

RN 701975-28-2 CAPLUS

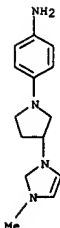
CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

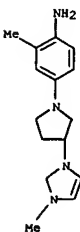
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

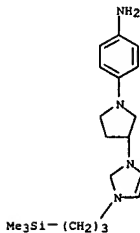
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
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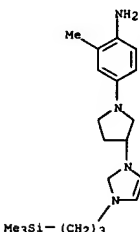
L21 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482163 CAPLUS
 DOCUMENT NUMBER: 141:42536
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a monosaccharide or disaccharide
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428508	Al	20040616	EP 2003-293133	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848442	Al	20040618	FR 2002-15775	20021213
US 2004221400	Al	20041111	US 2003-735292	20031212
PRIORITY APPLN. INFO.:			FR 2002-15775	A 20021213
			US 2003-444623P	P 20030204

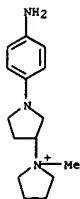
OTHER SOURCE(S): MARPAT 141:42536
 AB Hair dyeing comps. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a monosaccharide or disaccharide. Thus, a composition contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, saccharose 1, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H₂O₂ and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0 607355-19-1 607355-20-4 607355-21-5 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing comps. comprising phenylenediamine with pyrrolidine ring and monosaccharide or disaccharide)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

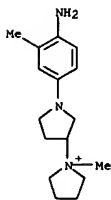
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

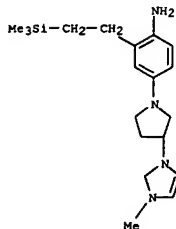
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

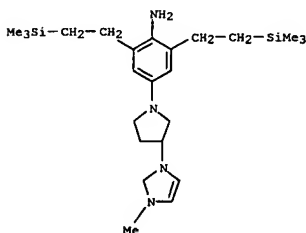
RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-[4-amino-3-methylphenyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

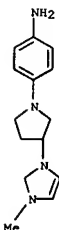
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
REFERENCE COUNT: 0
THERE ARE 0 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

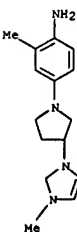
ACCESSION NUMBER: 2004:482162 CAPLUS
DOCUMENT NUMBER: 141:42535
TITLE: Hair dyeing composition comprising a cationic p-phenylenediamine with a pyrrolidine ring and a dicarboxylic acid
INVENTOR(S): Cotteret, Jean; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428507	A1	20040616	EP 2003-293132	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848435	A1	20040618	FR 2002-15768	20021213
US 2004216244	A1	20041104	US 2003-735273	20031212
			FR 2002-15768	A 20021213
PRIORITY APPL. INFO.:			US 2003-450344P	P 20030228

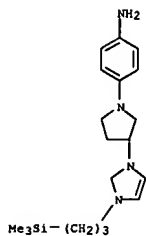
OTHER SOURCE(S): MARPAT 141:42535
AB Hair dyeing compns. comprise a cationic p-phenylenediamine with a pyrrolidine ring and a dicarboxylic acid. Thus, a composition contained
oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dilinoleic acid 1.5, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume
q3, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
IT 607355-12-4 607355-16-8 607355-18-0
607355-19-1 607355-20-4 607355-21-5
701975-28-2 701975-31-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing composition comprising cationic phenylenediamine with pyrrolidine ring and dicarboxylic acid)
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-aminophenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

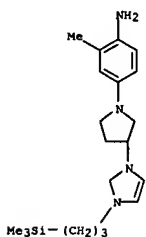
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

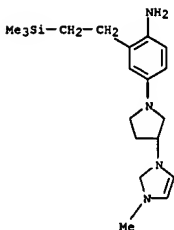
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-18-0 CAPLUS
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● Cl⁻

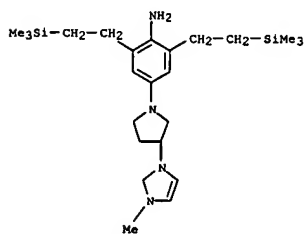
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 RN 607355-19-1 CAPLUS
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● Cl⁻

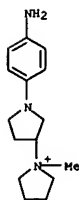
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

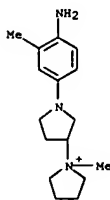
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.
 FORMAT

● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

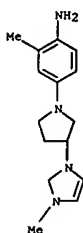
ACCESSION NUMBER: 2004:482161 CAPLUS
 DOCUMENT NUMBER: 141:42534
 TITLE: Hair dyeing composition comprising p-phenylenediamine with a pyrrolidine ring and a polymer
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 53 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428506	A1	20040616	EP 2003-293131	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848433	A1	20040618	FR 2002-15766	20021213
US 2004216246	A1	20041104	US 2003-735524	20031212
PRIORITY APPLN. INFO.:			FR 2002-15766	A 20021213
			US 2003-450338P	P 20030228

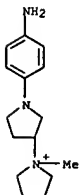
AB Hair dyeing composition comprise p-phenylenediamine with a cationic pyrrolidine ring and a polymer with fatty chains. Thus, a composition contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, ACP-1234 0.2, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 607355-12-4 607355-16-8 607355-18-0
 607355-19-1 607355-20-4 607355-21-5
 701975-28-2 701975-31-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing composition comprising phenylenediamine with pyrrolidine and polymer)
 RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

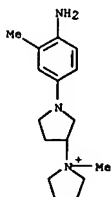
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

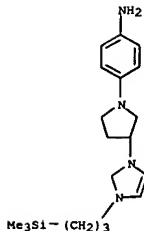
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-18-0 CAPLUS
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● Cl⁻

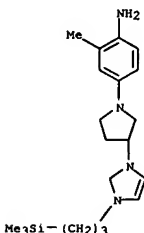
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

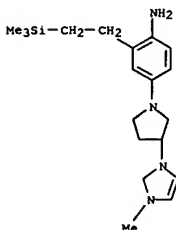
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

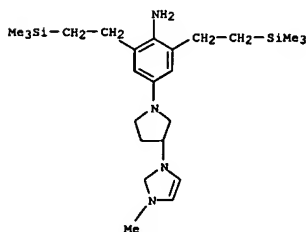
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L21 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:482160 CAPLUS

DOCUMENT NUMBER: 141:42533

TITLE: Hair dyeing compositions comprising a cationic tertiary p-phenylenediamine with a pyrrolidine ring and a cationic heterocyclic direct dye

INVENTOR(S): Cotteret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 104 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1429505	A1	20040616	EP 2003-293130	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848439	A1	20040618	FR 2002-15772	20021213
US 2004221399	A1	20041111	US 2003-735259	20031212
PRIORITY APPLN. INFO.:				
			FR 2002-15772	A 20021213
			US 2003-444641P	P 20030204

OTHER SOURCE(S): MARPAT 141:42533

AB Hair dyeing compns. comprise a cationic tertiary p-phenylenediamine with a

pyrrolidine ring and a cationic heterocyclic direct dye. Thus, a composition contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammonosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dillnoleic acid 1.5, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, niacinamide

0.2, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition

(50 g) was mixed with oxygenated water and 0.2 g Basic Red-51.

IT 607355-12-4 607355-16-8 607355-18-0

607355-19-1 607355-20-4 607355-21-5

701975-28-2 701975-31-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising cationic tertiary phenylenediamine

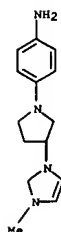
with pyrrolidine ring and cationic heterocyclic direct dye)

RN 607355-12-4 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

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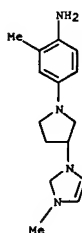


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-16-8 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

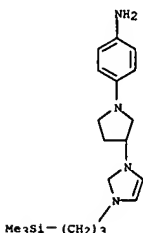
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-18-0 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

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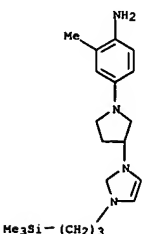


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-19-1 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

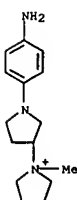
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-20-4 CAPLUS

CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

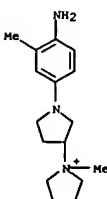
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● Cl⁻

RN 607355-21-5 CAPLUS

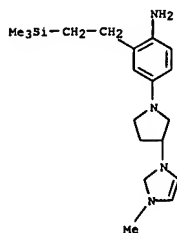
CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



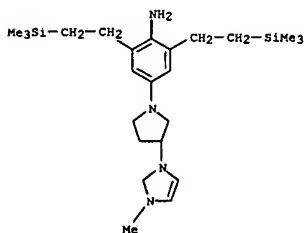
● Cl⁻

RN 701975-28-2 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

ACCESSION NUMBER: 2004:200101 CAPLUS
 DOCUMENT NUMBER: 140:235596
 TITLE: Preparation of bis-paraphenylenediamines comprising pyrrolidine groups and their use as dyes for keratinic fibers
 INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPKXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396486	A1	20040310	EP 2003-292177	20030904
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2844271	A1	20040312	FR 2002-11133	20020909
US 2004123401	A1	20040701	US 2003-657245	20030909
US 6923835	B2	20050802		
PRIORITY APPLN. INFO.:			FR 2002-11133	A 20020909
			US 2002-431713P	P 20021209

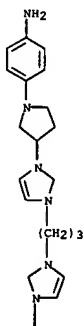
OTHER SOURCE(S): MARPAT 140:235596
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

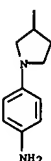
AB Title compds. I [wherein n, n' = independently 0-4; when n, n' ≥ 2, R1 and R2 can be identical or different; R1, R2 = independently H, (un)substituted aliphatic, alicyclic, saturated or unsatd. hydrocarbon chain with at least one carbon replaced by one or more O, N, Si, S, SO, or SO2; R1 and R2 never include peroxide bond, diazo, NO2, or NO; A = covalent bond or (un)substituted alkylene chain with at least one carbon replaced by an ammonium radical and/or by O, S, SiN, CO, SO, SO2; R6, R7 = independently H, CO2H and derivs., alkyl/dialkyl/carbamoyl, trialkylsilane, trialkylammonium, N-alkylimidazolium, (un)substituted alkyl, R8, R9 = independently H, OH, alkoxy, monoalkyl/dialkyl/amino, thiol, CO2H and derivs., alkyl/dialkyl/carbamoyl, trialkylsilane, trialkylammonium, N-alkylimidazolium, (un)substituted alkyl] were prepared as oxidation bases for dyeing keratinous fibers, in particular human hair fibers. For example, II=Cl-2HCl was prepared alkylation of [1-(4-nitrophenyl)pyrrolidin-3-yl]dimethylamine with 1,6-dibromohexane in MeOH at reflux for 6 h, followed by Pd/C hydrogenation at 10 Barr and 65°. Formulations of II in acidic medium gave blue-violet shades.

IT 667914-90-IP 667914-95-6P 667914-96-7P, 1,3-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1H-imidazol-3-ium chloride 667914-97-8P, 1,4-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1,4-dimethylpiperazinedium dichloride 667914-99-0P 667915-11-9P 667915-25-5P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological)

L21 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 study); PREP (Preparation); USES (Uses)
 (oxidn. base in dyeing; prepn. of bis-paraphenylenediamines comprising pyrrolidine groups as dyes for keratinic fibers)
 RN 667914-90-1 CAPLUS
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-], dibromide, dihydrobromide (9CI) (CA INDEX NAME)

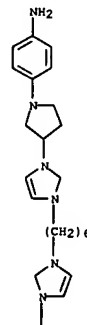


PAGE 1-A

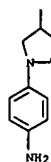
● 2 Br⁻

● 2 HBr

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667914-95-6 CAPLUS
 CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-], dichloride (9CI) (CA INDEX NAME)



PAGE 1-A

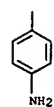
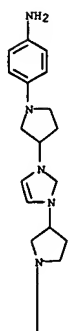


PAGE 2-A

● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667914-96-7 CAPLUS
 CN 1H-Imidazolium, 1,3-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride (9CI)

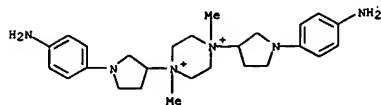
PAGE 1-A



● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 667914-97-8 CAPLUS
CN Piperazinium, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-1,4-dimethyl-,
dichloride (9CI) (CA INDEX NAME)

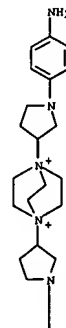
PAGE 2-A



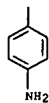
● 2 Cl⁻

RN 667914-99-0 CAPLUS
CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



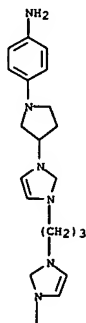
PAGE 2-A



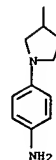
● 2 Cl⁻

RN 667915-11-9 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

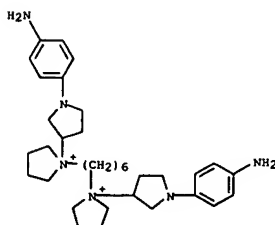


PAGE 2-A



● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 667915-25-5 CAPLUS
CN 1,3'-Bipyrrrolidinium, 1,1'-(1,6-hexanediyl)bis[1'-(4-aminophenyl)-, dichloride (9CI) (CA INDEX NAME)



● 2 Cl⁻

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

ACCESSION NUMBER: 2004:17396 CAPLUS
DOCUMENT NUMBER: 140:81854

TITLE: Hair dyeing compositions containing pyrrolidinyl-p-phenylenediamine derivatives
INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXKDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1378230	A1	20040107	EP 2003-291616	20030701
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841780	A1	20040109	FR 2002-8514	20020705
FR 2841780	B1	20040910		
JP 2004035559	A2	20040205	JP 2003-271500	20030707
US 2004077852	A1	20040422	US 2003-612986	20030707
PRIORITY APPLN. INFO.:				
		US 2002-408900P	P	20020909

OTHER SOURCE(S): MARPAT 140:81854

AB Pyrrolidinyl-p-phenylenediamine derivs. are useful for the dyeing of human hair fibers. Thus, 4-(3-imidazol-1-ylpyrrolidin-1-yl)phenylamine-HCl was prepared by the mesylation of N-(4-nitrophenyl)-3-hydroxypyrrolidine in

THF in the presence of Et₃N followed by the reaction of the product with imidazole and hydrogenation. A formulation contained the above compound 0.001, 2-(2,4-diaminophenoxyethanol)-2HCl 0.001, a support formulation

and water qs to 100 g.

IT 640725-42-4 640725-44-6 640725-45-7

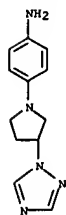
640725-52-6 640725-53-7 640725-54-8

640725-55-9 640725-56-0 640725-59-3

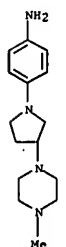
640725-60-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing compns. containing pyrrolidinylphenylenediamine derivs.)
RN 640725-42-4 CAPLUS

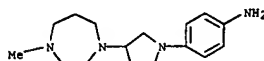
CN Benzenamine, 4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



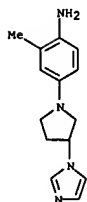
RN 640725-44-6 CAPLUS
CN Benzenamine, 4-[3-(4-methyl-1-piperazinyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



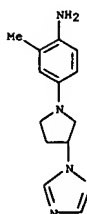
RN 640725-45-7 CAPLUS
CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



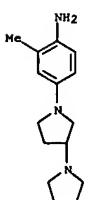
RN 640725-52-6 CAPLUS
CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)



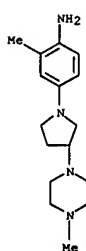
RN 640725-53-7 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



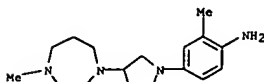
RN 640725-54-8 CAPLUS
CN Benzenamine, 4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)



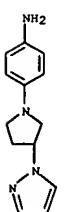
RN 640725-55-9 CAPLUS



RN 640725-56-0 CAPLUS
CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)

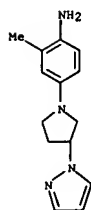


RN 640725-59-3 CAPLUS
CN Benzenamine, 4-[3-(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

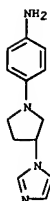


RN 640725-60-6 CAPLUS

L21 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Benzenamine, 2-methyl-4-{3-[(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

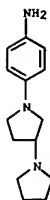


IT 640725-40-2P 640725-43-5P 640725-65-1P
 640725-66-2P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hair dyeing compns. containing pyrrolidinylphenylenediamine derivs.)
 RN 640725-40-2 CAPLUS
 CN Benzenamine, 4-[3-[(1H-imidazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

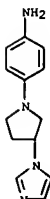


RN 640725-43-5 CAPLUS
 CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl- (9CI) (CA INDEX NAME)

L21 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



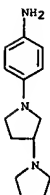
RN 640725-65-1 CAPLUS
 CN Benzenamine, 4-[3-[(1H-imidazol-1-yl)-1-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 640725-66-2 CAPLUS
 CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl-, monohydrochloride (9CI) (CA INDEX NAME)

L21 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

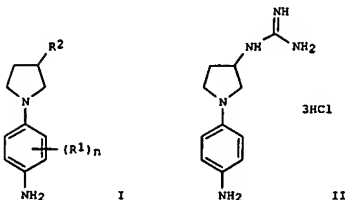
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:771366 CAPLUS
 DOCUMENT NUMBER: 139:276814
 TITLE: Preparation of aminophenylpyrrolidines as dyes for keratinic fibers
 INVENTOR(S): Sabellie, Stephane; Ramos, Laure; Leduc, Madeleine; Philippe, Michel
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Eur. Pat. Appl., 4 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

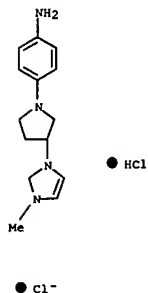
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1348695	A1	20031001	EP 2003-290597	20030311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2837821	A1	20031003	FR 2002-3847	20020327
FR 2837821	B1	20050311		
JP 2003286256	A2	20031010	JP 2003-89390	20030327
US 2003229949	A1	20031218	US 2003-397245	20030327
US 2004194227	A9	20041007		
US 6946005	B2	20050920		
PRIORITY APPLN. INFO.:			FR 2002-3847	A 20020327
			US 2002-387499P	P 20020611

OTHER SOURCE(S): MARPAT 139:276814
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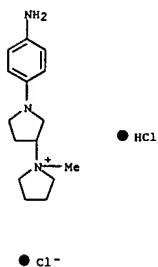


AB Aminophenylpyrrolidines I [R1 = halogen, (un)substituted alkyl, onium; n = 0-4; R2 = quaternary ammonium] were prepared for use as hair dyes. Thus, 4-FC6H4NO2 was treated with 3-acetylamino-pyrrolidine, followed by deacetylation, conversion to guanidine, and reduction to give the dye II, which gave blue-violet shades in alkaline medium.
 IT 607354-06-9P 607354-93-8P 607354-98-3P
 607355-02-2P 607355-05-5P 607355-09-9P

L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 607355-12-4P 607355-16-8P 607355-18-0P
 607355-19-1P 607355-20-4P 607355-21-5P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of aminophenylpyrrolidines as dyes for keratinic fibers)
 RN 607354-86-9 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



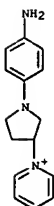
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607354-93-8 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 607355-05-5 CAPLUS
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)
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 CRN 607355-04-4
 CMF C15 H18 N3

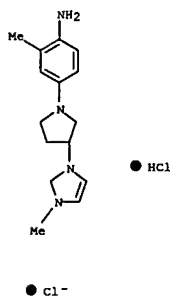


CM 2
 CRN 71-50-1
 CMF C2 H3 O2



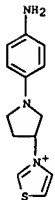
RN 607355-09-9 CAPLUS
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, methanesulfonate, monohydrochloride (9CI) (CA INDEX NAME)
 CM 1
 CRN 607355-08-8
 CMF C16 H25 N4

L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 607354-98-3 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



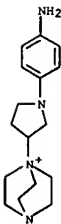
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-02-2 CAPLUS
 CN Thiazolium, 3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)

CM 1
 CRN 607355-01-1
 CMF C13 H16 N3 S



CM 2
 CRN 71-50-1
 CMF C2 H3 O2

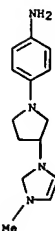
L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2
 CRN 16053-58-0
 CMF C H3 O3 S



RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

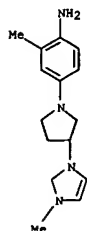


L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-16-8 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

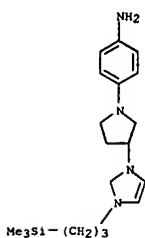


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-18-0 CAPLUS

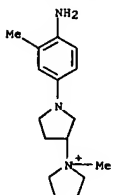
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



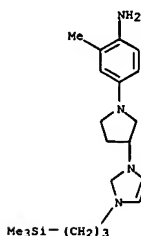
● Cl⁻

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L21 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 607355-19-1 CAPLUS

CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

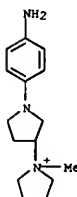


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-20-4 CAPLUS

CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 607355-21-5 CAPLUS

CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:496275 CAPLUS

DOCUMENT NUMBER: 127:197826

TITLE: Imido-containing polyamic acid, its manufacture, and liquid-crystal orienting agent using it for display

INVENTOR(S): Kawamura, Shigeo; Yamamoto, Keiichi; Nishikawa, Michinori; Matsuki, Yasuo

PATENT ASSIGNEE(S): Japan Synthetic Rubber Co., Ltd., Japan; JSR Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKOXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

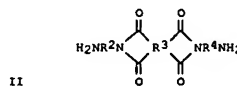
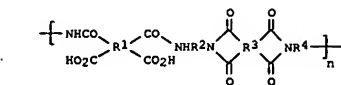
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09185064	A2	19970715	JP 1995-343560	19951228
JP 3612832	B2	20050119		

PRIORITY APPLN. INFO.: JP 1995-343560 19951228

GI



AB A polyamic acid I (R1, R3 = tetravalent organic group; R2, R4 = divalent organic group) is claimed. The polyamic acid is manufactured by treating a tetracarboxylic dianhydride II and an imido-containing diamine compound

III. The orienting agent contains 21 polymer selected from the polyamic acid and its derivative obtained by partial imidization. Oriented films containing the agent show good adhesion with substrates, high rubbing resistance, and stable pretilt angle.

IT 194216-37-OP 194216-42-7F 194216-46-1P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (liquid-crystal orienting agent using imido-containing polyamic acid

for display)

RN 194216-37-0 CAPLUS

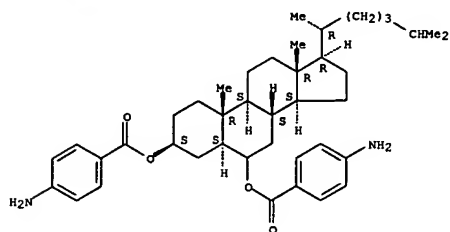
CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3B,5a)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione,

L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
4,4'-methylenebis[benzenamine] and 3a,4,5,9b-tetrahydro-5-methyl-5-(tetrahydro-2,5-dioxo-3-furanyl)naphtho[1,2-c]furan-1,3-dione (9CI) (CA INDEX NAME)

CM 1

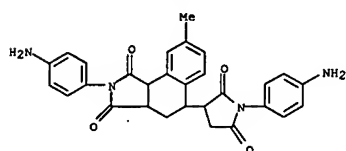
CRN 194216-36-9
CMF C41 H58 N2 O4

Absolute stereochemistry.



CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4



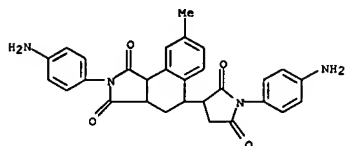
CM 3

CRN 67879-21-4
CMF C17 H14 O6

L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

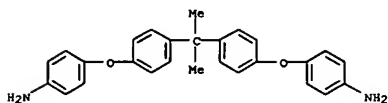
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4



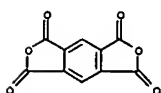
CM 3

CRN 13080-86-9
CMF C27 H26 N2 O2



CM 4

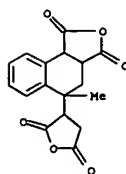
CRN 89-32-7
CMF C10 H2 O6



RN 194216-46-1 CAPLUS
CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3β,5α)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 4,4'-methylenebis[benzenamine] and tetrahydro-3a,6a-dimethylcyclobuta[1,2-c:3,4-c']difurantetrone (9CI) (CA INDEX NAME)

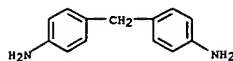
CM 1

L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 4

CRN 101-77-9
CMF C13 H14 N2

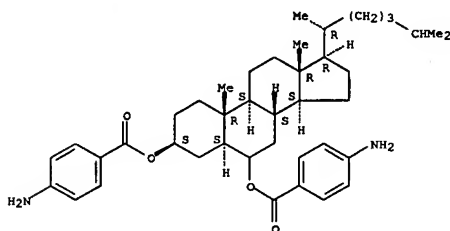


RN 194216-42-7 CAPLUS
CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3β,5α)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and 4,4'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 194216-36-9
CMF C41 H58 N2 O4

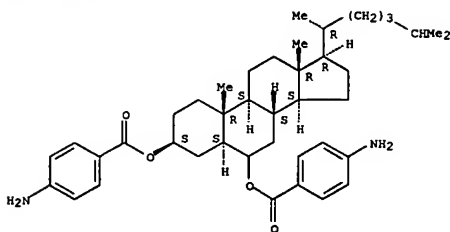
Absolute stereochemistry.



L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

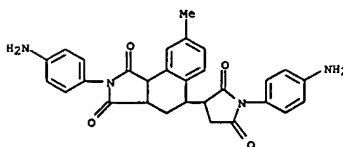
CRN 194216-36-9
CMF C41 H58 N2 O4

Absolute stereochemistry.



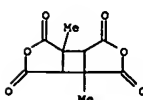
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4



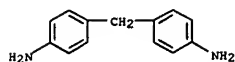
CM 3

CRN 137820-87-2
CMF C10 H8 O6



L21 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CH 4

CRN 101-77-9
CMF C13 H14 N2



IT 194216-35-8P
RL: PNUJ (Preparation, unclassified): PREP (Preparation)
(liquid-crystal orienting agent using imido-containing polyamic acid
for display)

RN 194216-35-8 CAPLUS
CN 1H-Benz[e]isoindole-1,3(2H)-dione,
2-(4-aminophenyl)-5-[1-(4-aminophenyl)-
2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl- (9CI) (CA INDEX
NAME)

